

S T U D Y   A S S O C I A T I O N

G E W I S

 **UPREMUM**

VOL 57 NO 2

THE  
SPECTRAL  
EDITION



# EDITORIAL

*The final Supremum of volume 57 will be the last edition of the Supremum I worked on. I joined the committee in the first year of my bachelor's degree and have thoroughly enjoyed the three years I was part of a committee. However, all good things must eventually come to an end.*

**EDITOR IN CHIEF** Lotte Lakeman

In this final edition of the Supremum we will take a look at the theme "Spectral". Initially, when we chose the three themes for volume 57, we wanted three mathematics-inspired themes.

The Limitless edition allowed us to think about all that is possible. During this edition, fraternity Défi celebrated its lustrum and showed us how to push our limits and explore the unknown. This year I also explored the unknown and faced my fears, by taking my first ever flight :).

The Fractal edition may not have had as poetic of a theme as the limitless edition, but in essence it still covered the same theme. These fractals allowed for endless possibilities and an infinite sea of details to be explored.

Finally, the Spectral edition... In this edition of the Supremum we will explore what the concept of Spectrals entails and the various associations the department and GEWIS have with it. Additionally, the kandies will introduce themselves, the life of a bus driver is presented, and we will learn what studying in Switzerland is like. And, of course, our internal writers have also cooked up articles for the Supremum.

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# CHAIR'S NOTE

**T**his summer GEWIS is already turning 43 years old! And in those years a lot has changed. For example, our point of sale system or the location of our members space, as described in my previous chairs notes. But no matter how far we go back in those 43 years, the name GEWIS already seems to be present. Which made me wonder: When did we come up with the name? Were there any other candidates we considered? And has it remained the same in all these 43 years?

TEXT Tessa Verheul

To answer these questions, we need to take a look at the history of GEWIS and even its predecessors. In the early years of the TU/e, there was already a study association for Mathematics, called Sunya, which later changed to "Studenten Gemeenschap Wiskunde" (SGW). Both were not yet official associations, but they did organize activities, the introduction week, and student councils, just like we still do at GEWIS!

Being an official association comes with perks we wanted back then, such as members getting a discount on their study books or the ability to apply for board grants. Additionally in 1981, the computer science engineering program was launched, which meant our department and our "association" would not only represent mathematics students anymore, but also computer science students! However, the name SGW did not yet include this new group of students.

For these reasons, in 1981, a group of students decided it was time for SGW to become the official study association for mathematics and computer science students. However, a new name was needed. Thus, a brainstorm session was held on the 18th of November 1981, where the name GEWIS was chosen. During this brainstorm plenty of other names were suggested, such as: WINST, WIG, WIST, RK Wiskunstenaaars BV, and more. While I was unable to find out what the abbreviations were supposed to mean, my guess would be the following: "Wiskunde en Informatica Studenten", "Wiskunde en Informatica Gemeenschap", "Wiskunde en Informatica Studenten", ??????.

Personally, I am very happy we ended up with the name GEWIS. I could not imagine our association without every committee starting with ge-. And when I read the minutes of the first board meeting of GEWIS, they also referred to the spectral suggestions above as "failed attempts". So, it is safe to say, the name GEWIS luckily did not have much competition.

Then on the 28th of June 1982 all formalities were handled and the association GEWIS was finally founded! GEWIS is the abbreviation we still use today, therefore you might think that we never changed our name in those 43 years, however *technically* we did. GEWIS was meant to be an abbreviation for "Gemeenschap van Wiskunde en Informatika studenten", but over the years the spelling of "informatika" changed to "informatica", since at some point in time we switched from old Dutch to modern Dutch.

Such a small change does not really count, so with that in mind we can conclude that the name GEWIS was already suggested in 1981. It turns out to be a timeless name which still fits us very well in 2025. And I am happy we can still call the association "ons GEWIS"<3.

# EDUCATION FIRST

**A**fter once again a very nice, but this time a bit less relaxing, holiday, I was ready to start again. Over the holidays I should have been focussing on passing my resits. However, due to all the nice weather and vacations I only managed to pass one. Luckily, I had already planned my Q4 free this year so I could retake them all. But nevertheless, I was feeling motivated to start studying again.

TEXT Jelte de Kock

Because I had chosen to not do the educational minor anymore, I had to choose a USE (something from the (g)olden days, now known as ITEC) trajectory to catch up on the missing credits I now had. This meant that next to the 3 courses I already had per quartile, I also had to do a USE learning line. So, I knew this year would be difficult, and Q1 already proved itself to be quite tricky. Because the fun stuff also did not stop, I had joined more committees and could be found more and more at GEWIS. However, one of the courses I took, Algorithmic Algebra and Number theory, turned out to be a very fun course and I focussed all my attention to that. This meant that I passed two out of the four courses this quartile, the other being USE.

Unfortunately for me though, this meant that my streak of passing all Q1 courses was over. Now I had to go to Q2, in my eyes now also known as the quartile of terror. During this quartile, I had four courses, and together with two resits, this meant I had to do my very best to keep up if I did not want to have more than two years of extra studying. I tried to put more focus on my studies this quartile, which in the end worked out! During this quartile I had the chance to redeem myself for probability theory, mathematical statistics and linear optimization, as these were all resits, I put my focus on these courses. Luckily, I passed two of them, and since two out of the other three courses were project courses, I managed to pass four courses this quartile and take only one resit with me to quartile three.

Now being a bit too familiar with doing four courses, and a resit, I decided to take on something which did not alleviate the workload, namely being a kandie.

This meant I now had to start really managing my time well, which in retrospect was a great preparation on becoming a board member. This quartile would, in the original plan, be the quartile in which you start your BEP, but for me it wasn't. However, in comparison to Q2, this quartile was very quiet for me, as I only had two courses (of which one project course) and one resit! This made me very relaxed, a bit too relaxed as I thought I could manage it all, but still ended up failing one course. Luckily, I could still resit this!

And then came Q4, and I immediately had a big Déjà Vu as I was only doing courses that I already did last year as well, with the exception of my resit. However, this also meant that it was again the fun quartile, and being a candidate board member is not as quiet as I initially thought. So, after two weeks I already decided to fully go for being a Kandie, and once again, drop two of the courses I had that quartile. Still, I was studying for as much as I could and managed to pass two out of the four courses again. By this time, I was a board member and had to decide what courses I wanted to do in my board year. As one of the courses I kept failing was not that fun, I decided to drop it and choose a whole different elective. At the moment of writing, I will start the other Q4 course in two weeks, so ask me when you read this how it went :).

This concludes my first three years at the university. I still have some time to go here, but I have enjoyed it all up until now. I hope you also enjoyed reading my experiences here and hope some people can relate that sometimes it does not have to go the way you planned, as my planning shifts about twice a week.

# MAPPING THE SCIENTIFIC LANDSCAPE: FROM SUNLIGHT TO SCIENTISTS

Just as sunlight can be broken down into a vibrant spectrum of colors—violet, indigo, blue, green, yellow, orange, and red—scientists are now exploring ways to create a "spectrum" of scientific achievement. While a scientist's complexity can't be neatly divided into colors, it can be represented by a series of numbers, allowing for comparisons and analysis.

TEXT Prof. Dr. Joost Kok - Vice-Dean

How do we translate a scientist into numbers? We can look at their impact, measured by things like:

» Citations: The total number of times a scientist's work is referenced by others.

» H-index: A metric that reflects both the number of publications and the number of citations per publication. (For example, Albert Einstein's H-index is around 130, according to Google Scholar, with approximately 180,000 citations.)

» Network: The number of connections on platforms like LinkedIn.

» Mentorship: The number of students and PhD candidates supervised.

By collecting these metrics, we can create a "fingerprint" of a scientist—a vector in a high-dimensional space.

This concept extends to scientific articles. We can analyze the frequency of character combinations within an article, generating large vectors that capture its content. For instance, analyzing triplets of characters with a 27-character alphabet results in vectors with 27 to the power 3 dimensions.

Once we have these vectors, we can visualize the vectors by projecting them into lower dimensions, like 2D or 3D. Over time, these visualizations become dynamic, revealing trends and developments within a scientific field.

This method of using numerical spectra and dimensionality reduction isn't unique. It's a common practice in data science, applicable across various domains. Consider the Eurovision Song Contest: each country receives a series of scores from other participating nations. These scores can be used to create vectors, allowing us to identify countries with similar musical tastes. For example, an analysis shows that Norway and France have musical tastes closest to the Netherlands.

Even when numerical data is initially available, we can use a "push and pull" approach. We can start with random vectors for scientists and articles, then:

» Pull: When a scientist cites an article, we move their vectors closer together.

» Push: When a scientist doesn't cite an article, we move their vectors further apart.

This iterative process allows us to construct a spectrum for a scientist, even without pre-existing numerical data.

# SPECTRAL

Spectral in various Math and CS contexts often refers to methods where eigenvalues play a key role; the spectrum is the set of eigenvalues of a matrix (or operator on an  $\infty$ -dimensional space). Eigenvalues in daily life are encountered e.g., in vibrations of buildings and bridges, control of cars and drones, etc. A video of the famous Tacoma bridge collapse in 1940 can be found online, but did you know that both the Erasmus bridge in Rotterdam (1996) and the Millennium Bridge in London (2000) also had to close and be adapted shortly after opening, because of too many vibrations? In countries with many earthquakes, it is crucial that engineers and architects construct buildings with natural frequencies which are far from those that arise in earthquakes.

TEXT Dr. Michiel Hochstenbach

The standard matrix eigenvalue problem is  $Ax = \lambda x$ . In Data Science, Statistics, and ML, the generalized eigenvalue problem  $Ax = \lambda Bx$  is important (A and B square matrices), e.g., for dimension reduction. If B is a singular matrix, it is possible to have infinite eigenvalues ( $\lambda = \infty$ ), for instance in the simplest case  $A=1, B=0$ . An elegant way to treat this is via homogeneous coordinates, so that you can do what your Calculus professor doesn't allow you:  $\infty$  is then simply  $1/0$ ! These homogeneous coordinates are also practical for making perspective paintings or drawings with a point of line on the horizon. CS students may encounter them in computer graphics:  $4 \times 4$  matrices capturing both 3D rotations and translations.

The word eigenvalue comes from the German Eigenwert. Another famous German math word which appears often in papers is Ansatz, a beginning, for instance of a method or proof. (Historically, English, Chinese, Russian, French and German are considered the main math languages.)

Pseudospectra were much studied in Applied Math around 2000. These are sets of points in the complex plane that are eigenvalues of perturbed matrices  $A+E$ , where  $\text{norm}(E) < \epsilon$ , for a given  $\epsilon$ . If you search, e.g., for "pseudospectra grcar matrix", you may find some pretty pictures, indicating which eigenvalues are most

sensitive to perturbations of the matrix. These sets are relevant e.g., when solving a linear system  $Ax=b$ , which I tend to call "arguably the most important scientific problem", since it appears in all engineering disciplines.

Eigenvalues also are important in the technique of spectral clustering. We represent the data points as a graph (e.g., with edges with weights related to the distance of the points). The Laplacian matrix then has all real and nonnegative eigenvalues. The smallest is 0, and the second smallest indicates how hard it is to divide the points into 2 clusters. Clustering can be carried out by looking at the elements of the eigenvector. An eigenvector corresponding to  $\lambda=1$  can also be used to rank items in a Markov chain; a famous example of this is Google PageRank to rank internet pages.

Finally, and most importantly, eigenvalue, or self-worth, also has a nice personal meaning. You are unique as a person, in character, gifts, location, and place in society. You are precious, loved, and wanted. Without you, the world would not be nearly as nice, fun, and beautiful! So for you in particular, it definitely holds that  $\lambda = \infty$ ! We hope that your time at TU/e contributes towards your personal growth, finding out some of your strengths and preferences, as well as a desire to interact with and help others. And keep your eigenvector orthogonal to all Eindhoven pubs! 😊



# MY GHOSTS

*Every now and then I am visited by the ghostly images of past teachers and supervisors. Not while I am asleep, but while I am teaching, grading, and when I'm writing some document in LaTeX. A lot of what I do is heavily influenced or inspired by people who have spent a lot of time on me. Let me tell you some stories about teachers and supervisors who have helped and inspired me in the past.*

TEXT Rick Erkens

My first lecturer at Radboud University was Engelbert Hubbers. He taught most of the courses on logic for computer science. He had a reputation for having an incredible memory. After he heard your name once, he would not forget it for the rest of your degree program. This meant that you were no longer allowed to zone out during a lecture, or play with your phone. If you did, you'd be called out by name to answer a question. This was a very effective way to engage everyone. I'm not sure if Engelbert still manages to remember all the students. One thing is certain: I cannot remember the names of most students, even after seven weeks of lab sessions in computer systems.

And yet I failed Discrete Mathematics in the first semester. My mistake was the same I see in a lot of first year students now. If you did not have to work hard to pass high school, you will find out the hard way that you have to invest hours into practicing with exercises. I was fully aware that only I was to blame.

Luckily, Engelbert hosted three additional exercise classes for those that wanted to take the resit. You had to send him some solutions for the exercise program beforehand. There was no obligation for him to put even more work into us, and frankly, it felt like my laziness in the first semester should not have been rewarded with this kindness. I passed Discrete Mathematics in the resit. If it were not for Engelbert, I may not have been able to continue with Computer Science. Instead, I followed the rest of his courses with much greater interest, and I even tutored for his course on formal proofs for four years.

Throughout the process of writing a thesis or a scientific paper it is common practice to ask for feedback regularly. You can spend as many hours as you want on revising your own work. At some point you cannot even spot the typos anymore. One of a supervisor's tasks is to provide this feedback. And I have had many supervisors.

The kind of feedback that lingers most with me, probably the least useful, is everything concerning typesetting in LaTeX. My master thesis supervisor once pointed out to me that  $\sim\subseteq\text{gfp}(\sim)$  is an ugly rendering, because there is not enough spacing between  $\sim$  and  $\subseteq$ . It can be fixed by putting curly brackets around  $\sim$ . I still forget to apply this advice every now and then, but it is impossible to unsee the ugly rendering. In those moments I see the ghostly image of my supervisor, and I simply have to fix it. That's why I cannot help myself point out this problem when it appears. Someone recently pointed out to me that  $\varepsilon$  ( $\backslash\text{varepsilon}$ ) is much prettier than  $\epsilon$  ( $\backslash\text{epsilon}$ ). I wish that I knew this sooner, or never, because a quick  $\text{ctrl+f}$  tells me that the uglier variation appears 225 times in my PhD thesis. A part of me wants to have the whole thing re-printed now.

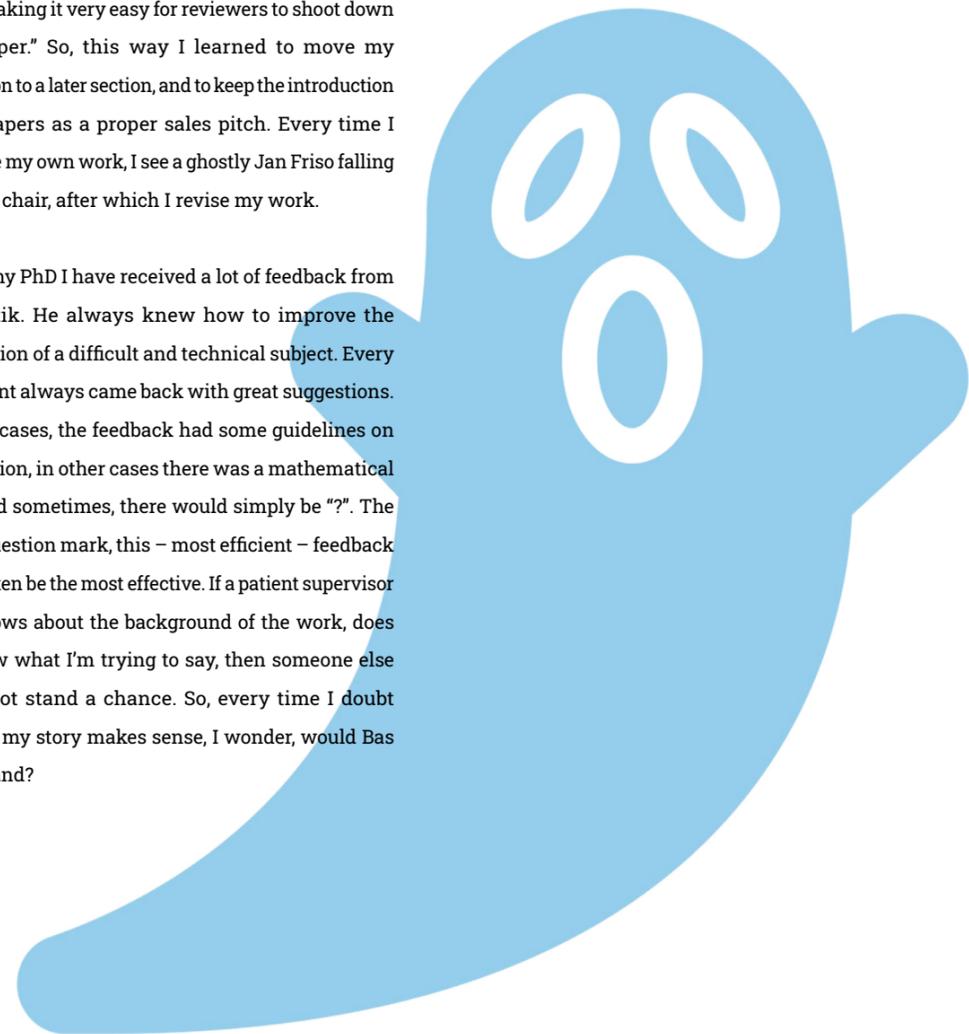
At the beginning of 2021 I wrote an article with Jan Friso Groote about tree pattern matching automata. I was very happy with the result that we managed to get in a relatively short time. But to get a paper accepted at a conference it is not enough to have a nice technical result. It is equally important to sell your idea; to convince others that your scientific contribution is interesting and new. This is not something you learn during your master's. I will always remember the moment I was finishing the introduction to the paper. In the spirit of being honest about the limitations of my own work, I stated some possible downsides to the method in the introduction as well, and pushed my changes to the Git repository.

One minute later, out of nowhere, I was called on Microsoft Teams by Jan Friso. "I'm reading the introduction and I almost fell from my chair. This way you're making it very easy for reviewers to shoot down your paper." So, this way I learned to move my discussion to a later section, and to keep the introduction of my papers as a proper sales pitch. Every time I relativize my own work, I see a ghostly Jan Friso falling from his chair, after which I revise my work.

During my PhD I have received a lot of feedback from Bas Luttik. He always knew how to improve the explanation of a difficult and technical subject. Every draft I sent always came back with great suggestions. In some cases, the feedback had some guidelines on formulation, in other cases there was a mathematical error, and sometimes, there would simply be "?". The single question mark, this – most efficient – feedback would often be the most effective. If a patient supervisor who knows about the background of the work, does not know what I'm trying to say, then someone else would not stand a chance. So, every time I doubt whether my story makes sense, I wonder, would Bas understand?

Every time I work together with someone new, they add new perspectives, new knowledge, new tips and tricks, and new ways to make my LaTeX documents even prettier. Now that I'm a full-time lecturer I am wondering what my ghost will be like for others.

“ Every time I relativize my own work, I see a ghostly Jan Friso falling from his chair... ”



# ESTABLISHING AN AUDIO CATALOGUE OF UNDERWATER SOUNDS

**A**t Witteveen+Bos, we were selected to participate in an exciting project commissioned by the European Commission, collaborating with international partners from Spain, Italy, France, Denmark, and Sweden. Our goal was to develop an audio catalogue of underwater sounds, named ECoSS (European Catalogue of Sound Signatures). This extensive library aims to compile sound recordings from European shallow seas, including the Wadden Sea and the North Sea near France.

TEXT Martijn ter Steege

## CREATION OF THE AUDIO CATALOGUE

The project began with the collection of raw audio data from various underwater environments. This data underwent thorough processing to extract usable sound recordings. Utilizing these large datasets, we created a robust catalogue—a comprehensive library of recordings from shallow seas.

Sound fragments were categorized based on their source. While our primary focus was on anthropogenic sounds such as fishing activities, shipping, and wind farm construction, the catalogue also includes biological sounds (dolphins, whales) and natural sounds (waves, precipitation, earthquakes). These fragments trained an AI algorithm through Deep Learning, enabling efficient categorization of new sound fragments. Thus, we effectively established a “Shazam” for underwater sounds.

## INTERNATIONAL GATHERINGS

In late 2024, we had the privilege of traveling to Brussels for the launch of the ‘ECoSS library of underwater sounds’—the European Catalogue of Sound Signatures. This event showcased the remarkable outcomes of international collaboration. Furthermore, we submitted an abstract to the One Ocean conference in Nice and were accepted to present orally at this prestigious event. We are looking forward to this conference in June 2025! It will be very Nice!

## INTEGRATION OF MATHEMATICS AND DATA SCIENCE

In this project, I utilized my mathematical background in an innovative way to analyze audio files, manage large datasets, and apply AI techniques. Mathematics and data science were essential to the development of the ECoSS catalogue. Following the FAIR principles (Findable, Accessible, Interoperable, and Reusable), we ensured that our data was properly cleaned and organized. This allowed us to implement complex algorithms for sound categorization. The use of AI and machine learning models enabled us to efficiently classify and identify underwater sounds, showcasing the powerful synergy between technology and environmental science.

If you have any questions or would like to learn more about our work, please feel free to reach out. You can contact me at [martijn.ter.steege@witteveenbos.com](mailto:martijn.ter.steege@witteveenbos.com).



# LIVING THE SWISS STUDENT LIFE MORE THAN JUST STUDYING

**W**hile choosing Switzerland as my exchange destination was partially motivated by the ‘inside joke/love’ for Switzerland by my former board members (+41) and me, my life here has been all but a joke. In this article I will share my experiences of the first two months of my exchange adventure in Lausanne!

TEXT Wietske de Bondt

Although living alone in a foreign country where you do not know the language felt a bit frightening at first, I am really glad I decided to do so! An exchange semester brings lots of fun experiences and nice opportunities. For example, having a ‘coffee talk’ with the Dutch Ambassador (including a lovely chocolate lava-cake :)), getting to know other people’s cultures (including the best German memes), or going on a day-trip to the mountains (including amazing views on the Matterhorn)!

However, besides, all these enjoyable experiences, what this exchange has brought me most is a different perspective on life, in its broadest sense. For starters, I have gained a new perspective in an academic sense. Courses are taught in a slightly different way here because of the semester system. This means you can thoroughly dive into the material and not be overwhelmed with assignments in the first few weeks. At the time of writing, we’ve finished week 7, and I’ve only had 2 small, graded deadlines yet. As a result, I had more time to get used to life here and explore the city! We will see how I’m feeling about the semester system in 10 more weeks, when the exam season starts... Moreover, EPFL (the university where I’m studying now) has a lot of ‘colloquium’ information sessions by (visiting) PhD-students or professors. I think this is really nice, because it allows students to discover the different research areas within computer science!

Another, more important perspective I have gained is about free time. By leaving my Eindhoven ‘bubble/routine’, I got to redefine what I want to spend my time on. I ‘decided’ to not stress too much about courses, since I wanted to be able to really enjoy my semester abroad and realized that life is so much more than just studying. So far that has worked out nice. Every weekend, I go out into nature, explore a city, or join an ESN (Erasmus Student Network) activity, allowing me to really recharge and enjoy life :).

Of course, I do miss friends and family, the weekly GEWIS borrels, and being able to bike on flat roads. However, having found a great church community, seeing the mountains reflected in beautiful ‘Lac Léman’ every morning, and eating Swiss Raclette makes time fly ;). I really recommend other students to do an exchange semester!! It learns you to really become independent, get to know yourself, and live life in a (hopefully) beautiful country!



# DOCUMENTATION, YAY OR NAY?

You probably know that feeling: you have just finished your project, and it is ready to be handed in or deployed. However, you have not documented it yet because ensuring the correct result was more important.

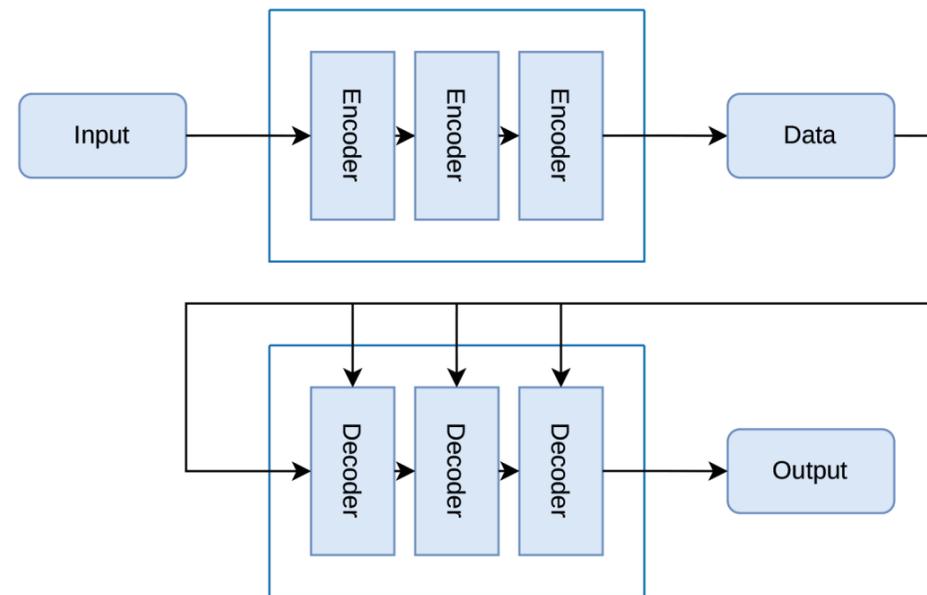
TEXT Pim van Leeuwen

You are not the only one who has experienced this; it is also very common in a corporate setting, where results are more important than documentation. This highlights the leading cause of so-called legacy code, which is no longer maintainable or relies on outdated/deprecated dependencies. During my thesis, I am researching the possibility of utilizing large language models (LLMs) to tackle this problem by automatically generating documentation for repositories, regardless of their programming language.

To understand what an LLM does, I will introduce a basic encoder-decoder structure, visualized in image 0, that most modern-day AI models have. This

structure takes an input, in this case textual, and converts that to tokens. These tokens are then encoded to data from which this model can learn patterns. The decoding step then utilizes this data, for example, for classification or text generation steps, to generate an output. I will not go into more depth to bore you with the details; trust me, this works in practice.

In my thesis, I present a framework that can generate documentation for a programming language when provided with an LLM. You will probably say, "But I can already ask ChatGPT to write documentation for me." Even though that is true, do you provide the proper context for your prompt (question to the LLM)? If I ask



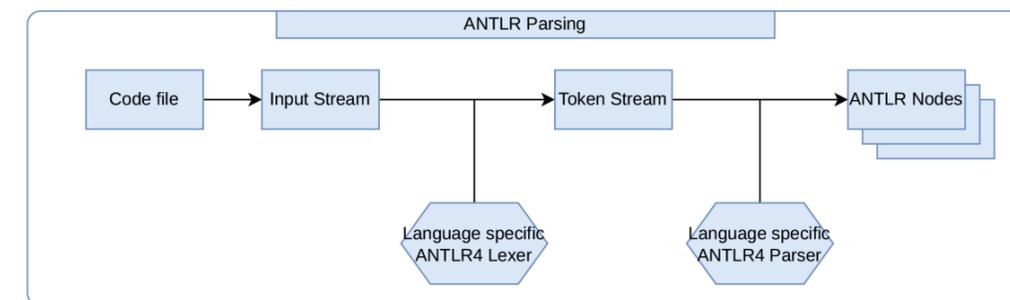
0 A basic encoder-decoder structure

an LLM to document a piece of code from a private repository, that LLM will not know where that file is in the structure or what specific methods do. And, of course, if you were in that situation, you would say, "I don't know how to document this," but LLMs will not do this; they will usually make up facts called "hallucinations" in technical terms. The presented framework ensures that the proper context is given to prevent these hallucinations so that the LLM can provide an educated answer. The vast image containing this framework can be found on the next page as a reference.

As you can see from the image, the LLM does not come into play until step 5. First, all the files from a repository must be indexed and converted into a tree structure. Why a tree? Because repositories also have an implicit tree structure. After these files are converted, we use ANTLR to parse the files in the folders to actual ANTLR nodes. ANTLR (ANOther Tool for Language Recognition) is a language parser. It allows us to easily convert programming languages to a shared structure, since we can go to a general Abstract Syntax Tree (AST) structure, from these ANTLR nodes. This ANTLR process can be found in image 1. From this point, we have entirely abstracted from specific programming languages. If this is so easy, why doesn't every tool do this? Because we make a trade-off here, abstracting away from programming languages means we cannot utilize programming language-specific tools that can extract information, so there is no easy way of knowing where a method leads or what dependencies a file has.

In step 4, we work around the negative side-effects of generalizing away from a programming language. Here, we make AST optimization; for example, parsing techniques are used to find the location of a method call. If we know that a method "findID()" is called in a file that has x dependencies and only one of these contains the method "findID()," we can be sure that this is the correct method and parse an explanation of this method as context to the LLM. To make this work, we need to ensure that we document the methods and classes in order of dependency; so if we document method A, all of its dependencies will already be done earlier. This is easy because nobody would ever create circular dependencies, right? Well... not entirely. This does happen, and in this case, we have to accept that we cannot always give perfect context because if A depends on B and B depends on A, we must choose one to be documented first (without the context of the other). After these steps, we can finally prompt the LLM and get documentation back, which we can combine nicely into a GitHub page or a self-hosted webpage.

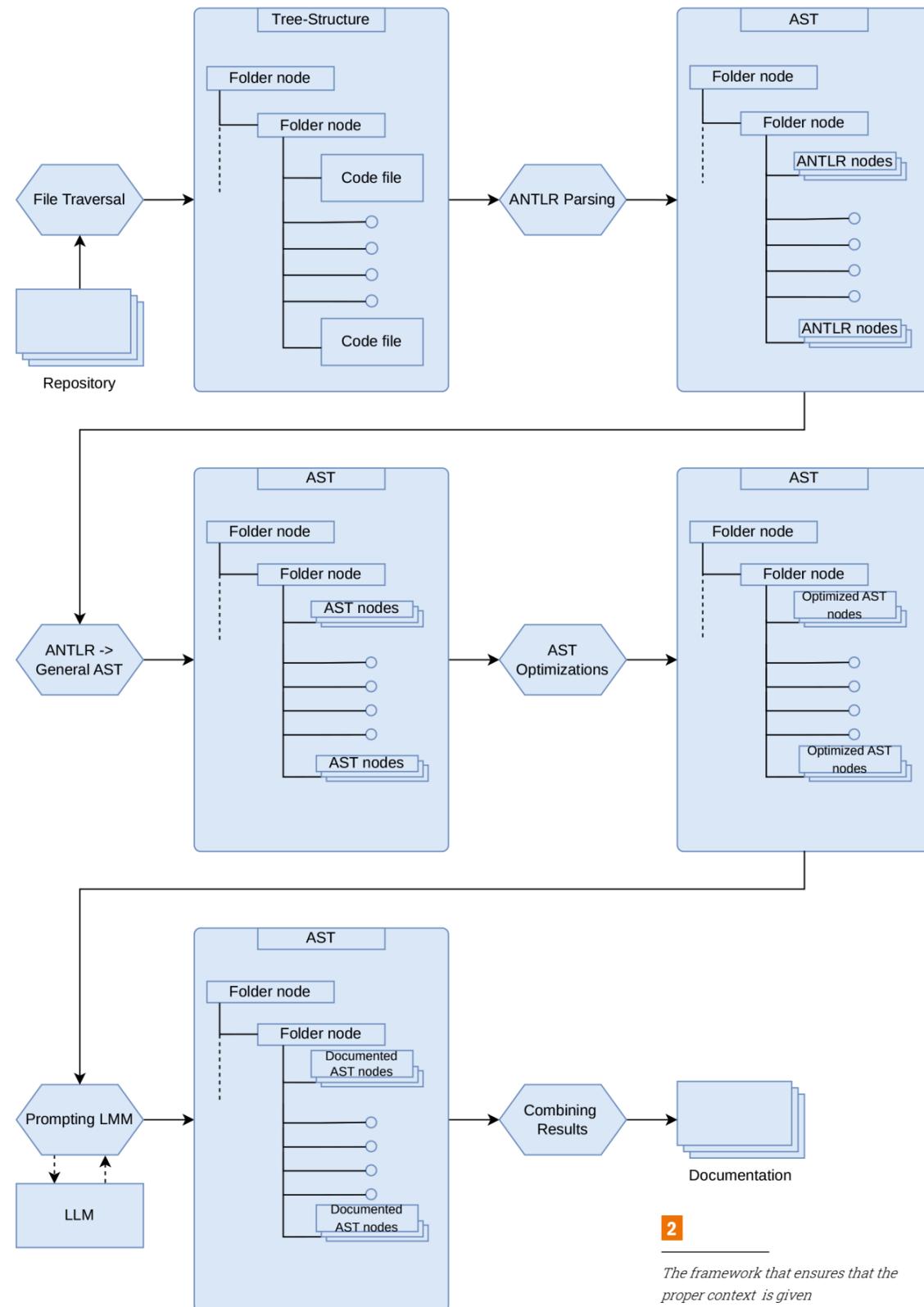
That was a lot of information; my apologies. I have already tried to spare you as many details as possible while still telling you what I am doing in my spare time. LLMs can be great. Currently, most of the research in computer science is, in some way, exploring what can be done using them. This goes far beyond what you currently ask ChatGPT (or another LLM) and enables great things. Nobody actually enjoys writing documentation, so it would be great if someone else could write it for you.



1 The ANTLR process

When I write this, I am evaluating my results by sending a very long survey to people to grade the documentation. Unfortunately, knowing the average time-to-door of Supremum, I cannot advertise that survey here anymore, but let's hope that the results

from that survey lead me to a reasonable conclusion of my thesis. After that, I will be working towards defending my results. Who knows, I might have already (or almost) graduated by the time you read this.



2

The framework that ensures that the proper context is given

*Infimum: A strange or funny quotation from a teacher, a student or faculty member. Here you can find infima sent to the Supremum committee via [inf.gewis.nl](http://inf.gewis.nl).*

**Robin leest het burgerlijk wetboek:** "Boek 2 Artikel 37: Het bestuurslidmaatschap eindigt op een gegeven moment"

**Robin:** "Godzijdank"

**Jens K:** "Heel mijn GEWIS notulen zien er een beetje uit als een Marco Borsato nummer"

**Rink P:** "Dit is echt girl math"

**Leon V:** "Bestuur de mokken zijn op, nu moest ik wel bier pakken!"

**Leon:** "Is een banjo eetbaar?"

**Ciska:** "Ik voel me gemansplained"

**Robin v D:** "maar ik snap het"

**Leon V:** "Als ik René zie, voel ik me nuchter."

**René op carnavalsvrijdag om 5 voor 12:** "Kan Hubble niet naar mij lopen"

**Ruben zoekt dingen op voor z'n afstuderen:** "Union of Pills filtration."

**Kim:** "Vo voor pils!"

**Jos (gebouwbeheer):** "Max! Zoek eens een baan jongen!"

**Ruben L.:** "Dit is hetzelfde als een biertje uit de fruitmand pakken."

**Tycho:** "Rotondes zijn best wel 'vo"

**Tessa on WASD controls:** "Why D for right?? The R is right there"

**Lucas M.:** "De noise cancelling cancelled."

**Hiske:** "Het is toch geen huiselijk geweld als je niet thuis bent."

**Elwin:** "Alsjeblieft geen 1"

*Gooit 1*

**Arend V.:** "Patience is a roguelike."

**Arend V.:** "I finished my soup."

**Ruben W.:** "What soup was it?"

**Arend V.:** "Caffeine soup."

**Robin v. D.:** "Wat is tegen de klok in?"

**Juul:** "Ik heb er zo geen zin in. Ik doe ook niet mee, maar gewoon uit principe."

**Robin v. D.:** "Dit beschadigt de privacy van onze leden."

**Hiske:** "Hoezo? Welke leden?"

**Nora:** "Wij zijn soms echt elkaars externe harde schijf"

*Oud CO Bartjan tegen CO Jelte*

**Bartjan:** "Jelte, mis jij ook niet zin in een bepaalde educatieve versnapering"

...

**Jelte:** "Hmm... ik vraag het even aan Jim"

**Tessa:** "Jelte gaat een pre-master Nanobiologie doen"

**Annemiek:** "En daarna?"

**Tessa:** "Nanobiologie"

**Anne B.:** "Ik weet dan echt niet meer of ik 5 of 4 of 17 bier heb gedronken."

**Anne B.:** "Ik ben echt 1 meter 10."

# WERKERVARING

**B**innen de wereld van de software heeft iedereen wel een mening waar ze krampachtig aan vast blijven houden ondanks dat ze de enige zijn met die mening. Tabs zijn beter dan spaties. Witte kleurschemas in IDEs zijn gewoon prima. Vim is beter dan emacs is beter dan welke IDE ook. Mijn mening in dit rijtje is dat Windows Phone het beste mobiele OS was en dat het jammer is dat het niet meer bestaat. De live tiles-layout, Nokia als maker van de telefoons en de goede integratie van hard- en software zorgden ervoor dat Windows Phone een gulden middenweg was tussen Android en iOS. Dit waren overigens de dagen van Android 6.0, toen dit OS nog een stuk minder verfijnd was.

TEXT R.A.D. Wouters

Mijn eerste serieuze werk als developer was ook op Windows Phone. De achilleshiel van Windows Phone was het gebrek aan apps. Alle grote apps waren er, maar kleinere apps zoals de roosterapp van mijn school waren erg verouderd of helemaal niet beschikbaar. Om deze reden heb ik 2 apps zelf gemaakt, de roosterapp en de app van de bibliotheek. De eerste heb ik proberen te verkopen aan de maker, maar daar werd ik straal genegeerd. Bij de tweede was er wel interesse en dat waren de eerste euro's die ik verdiende als developer.

Na de middelbare school was het tijd om te gaan studeren in Eindhoven. Hier had ik via-via een bijbaan gevonden als hybride developer, waarbij we apps maakten met behulp van phonegap. Een van de grotere projecten hier was Hopper, een vroegfietsendeelsysteem. Hierna gingen we over naar pure front-endprojecten, waaronder een systeem voor de optimalisatie van fabrieken.

Het bedrijf waarvoor ik toen werkte had helaas even geen werk, dus was het tijd voor een aantal freelanceprojecten. Dit waren vooral wat meer creatieve projecten, zoals bijvoorbeeld Land en Hand, een interactieve kaart met daarop projecten die te maken hebben met het landschap.



Na zoals iedereen in die tijd even bij de Wolfpack gewerkt te hebben, had ik tijdens corona behoefte aan een bijbaan die zich niet achter een scherm afspeelde. Dit werd medicijnen en pakketten bezorgen op de fiets bij Tour de Ville, wat een bijbaan is die ik aan iedereen aan kan raden. Je ziet iets van de stad, je wordt fit en bent lekker bezig in de buitenlucht. Dit was leuk voor een tijdje, maar het bouwen en problemen oplossen van de software begon ik wel te missen.

Rond deze tijd kreeg ik het aanbod om voor Collecthor te komen werken als fullstack php developer. Collecthor maakt software voor de (markt)onderzoekssector en is een 6 jaar oude PHP-monoliet. Als een developer die vooral aan greenfields-projecten had gewerkt met moderne buildsystemen, was dit best wel een overgang, maar zeker een leerzame ervaring. Met Yii framework en MySQL kom je niet op de frontpage van Hacker News, maar je kan er wel gigantisch solide applicaties mee neerzetten.

Mijn bijbaan bij Collecthor werd stiekem een fulltimebaan en mijn uitschrijving bij de Fontys was snel genoeg gebeurd. Na 2.5 jaar was helaas alleen de backlog leeg bij Collecthor, waarna ik aan de slag ging bij Markteffect, de grootste klant van Collecthor. Hier was weinig in-house software development en ik miste de technische uitdaging meer dan verwacht. Wat hier wel erg interessant aan was, was het werken bij een bedrijf buiten de software-industrie en het leren over hoe marktonderzoek in elkaar zit.



Mijn volgende werkgever was Archipel Academy, waar we software maakten voor het beheren en uitvoeren van leerbudgetten. Dit was met een geweldig team, maar hier kwam helaas het product ook tot zijn eind en sinds juli 2024 ben ik aan het werk bij Cyclesoftware!

Cyclesoftware is een softwarebedrijf in Nistelrode dat een compleet softwarepakket maakt voor de fietsenbranche. Met 5 developers en 20 medewerkers in totaal zijn wij voor bijna 2200 klanten in Nederland, België en Frankrijk de leverancier van een totaalpakket voor alle fietswinkels. Van je lokale fietsmaker in een schuurtje achter zijn huis tot de meest moderne winkels waar het carbon je om de oren vliegt.

Deze app is wederom geschreven in php, op het moment van schrijven php 8.3. Aangezien Cyclesoftware 12 jaar oud is, zit er natuurlijk nog een hoop legacy untyped code in, welke volgens het boy scout principe ("Laat altijd iets beter achter dan je het gevonden hebt") langzaam refactored wordt naar moderne OOP-code. Hoewel dit soms voor het nodige gevloek zorgt, is het ook een erg interessante uitdaging.

Ik zou niet per se mijn carrièrepad aan willen raden, maar het laat wel zien dat je zonder diploma's niet per se in de goot hoeft te belanden. Kijk bij veel bedrijven binnen als je de kans hebt, wees niet bang om op te stappen als je het niet naar je zin hebt en zorg ervoor dat je van zo veel mogelijk mensen leert.

# TU/ECOMOTIVE

**L**ike any student team, at TU/ecomotive we always proudly talk about how our members are very international, multidisciplinary and even from different universities. However, before I joined a student team this all seemed like sugar-coated marketing to me. After all, why would someone who studies and lives far away travel here to join a student team? Or what would a computer science or applied maths student do at a team that builds cars? Surely, that's all mechanical and electrical stuff. Or so I thought.

**TEXT** Marc Max Hoevenaars

I knew as soon as I began to comfortably find my way around TU/e, that I wanted to do something more in my studies, something outside of lecture halls and instruction hours. Pretty quickly I found out that a student team would be the perfect way to enrich myself in a relatively casual environment, while working on a project that really makes a difference.

## WHAT CAN A CS STUDENT DO AT A CAR TEAM?

In our current TU/ecomotive team, almost 25% of our members are also GEWIS members. I (Marc) will start off with sharing my perspective but we all have very different roles so I've asked 2 others to write a little about what they do as well.

### MARC – CHIEF DRIVETRAIN ENGINEER

My main worry was that after having only completed my first year, I wouldn't be able to do anything meaningful on my own. Luckily, the first thing I found out when I started at Ecomotive this year, was that everything we do here is learnt 90% along the way. I was asked at the start of the year what role I'd like to take and my only response was: "I'm not sure what I am able to do, but rather not purely coding all the time."; my intention was to just try out something more practical, and not more of what I already do in my courses.



In the end what we decided on was that I would best fit in the Drivetrain department, covering a lot of what is required to build a car. My responsibilities require me to do some programming and to understand power electronics (since the car is an EV), but I also do a lot of vehicle dynamics and CAD in order to make sure the mechanical parts of the drivetrain are suitable for our car. My favourite part is, having gone into this with a lot of motivation but little knowledge, that I was able to learn all of this through specialised courses offered by partner companies. I went from never having modelled even the beginner donut in blender, to designing all the mounting mechanisms for the motors. Besides all this technical stuff, as the chief of the drivetrain department, I also communicate a lot directly with companies that supply us parts. This really is as scary today as it was the first day. I still read my emails 5 times before sending. Nevertheless, the feeling after getting my work approved, or a sponsorship deal made, is rewarding enough to make it all worth it.

### BOHAO – CHIEF EMBEDDED SYSTEMS ENGINEER

As a member of the Electrical Department, I was tasked with designing and programming the vehicle's low-voltage electronics. Even before joining Ecomotive, I learned by attending their events that this team builds and designs things from scratch, free from existing architecture constraints. This drew me towards Ecomotive because this was the perfect opportunity to put my theoretical knowledge to practical use. The Low Voltage system plays a key role within any electric car, whether it is by supporting the vehicle's internal communication system or powering numerous electronics that are essential to its operation. All of this is achieved through embedded programming, designing custom PCBs, and gaining an understanding of how the low voltage system will interact with other departments and systems. Acquiring new knowledge and skills is essential to make all this possible. Learning something new can be daunting, especially when no one around you is familiar with it. On top of that, directly reaching out to companies for help or advice is quite nerve-wrecking at first, but becomes a necessary part of learning and pushing the project forward. Joining the Low Voltage department within the Electrical Department made sense given my background and interest, however stepping into the role of Chief added an entirely new layer of responsibility, since managing people was something I had never done during my time at the University.



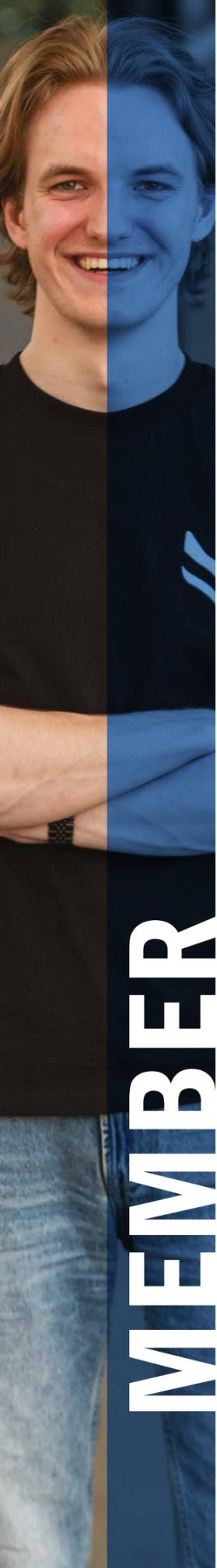
### NAZAR – EVENT MANAGER

As a 3rd year Computer Science student I joined the team with the hopes of applying the knowledge I gained in practice. However, when the remaining board roles were getting filled at the start of the year I got the opportunity to take on the role of Event Manager, and while this was quite unexpected, I thought this could be an interesting challenge, so I agreed. My role involves organizing events for the team throughout the year, and planning the tour. However, what I love about student teams, is that everyone gets to do a bit of everything. While (as the role name suggests,) I mostly have organized events in my journey so far, I have also had a chance to design graphics, edit videos, create CAD models, and contact potential partner companies. As a board member, I get to work closely with the rest of the board to ensure smooth functioning of the team. Ensuring that my event planning fits with the project and integration schedules, making decisions on where to direct the recruitment efforts, and working with the Finance Manager for the tour budget. I am also involved in key decisions through our weekly board meeting and monthly advisory board meetings. During my time at TU/ecomotive I have already greatly improved and developed new skills: public speaking, event planning, partner communication, people management, CAD modelling, Adobe suite, and many more. As you might have noticed, none of what I've talked about so far has anything to do with Computer Science or programming, and this is one of many reasons I am happy that I have joined TU/ecomotive.

## TECHNICAL OR NOT?

Hi, it's Marc again. As I hope is quite clear now, joining a student team is more about finding what you are interested in and what you want to learn, not at all about what you are able to contribute with your current capabilities. The best part is, whatever your interests are, there's bound to be a student team that has a role for you; part-time, full-time, technical, managerial, anything. The spectrum of opportunities at this university gives you so much to choose from.

MEMBER



# A NEW FAMILY MEMBER

Since the start, GEWIS has been using hardware to help run the association. Since the rise of the internet, the role of servers has increased greatly. Currently, we have 5 servers that help the association with day-to-day tasks. Let's dive into what servers are exactly, what they do, and how Prodrive has an important role in this.

TEXT Victor Klomp

First of all, what are servers? Servers are in essence just computers, just a like your laptop or your phone. Actually, there are plenty of people who re-purpose their old laptop as a server. GEHACK also uses laptops as servers in their programming contest, and for good reason, but that is a story for them to tell. The servers that we are talking about today are very flat, and long.

**“ This form factor makes them easy to stack in so called “server racks”, conveniently these servers are called “rack servers” ”**

They contain the same memory, processing and storage units that any other computer uses. Big companies have huge warehouses full of these server racks, all working to deliver you information over the internet, or compute other heavy workloads that you might not be able to do your own laptop.

Like I said earlier, GEWIS has 5 servers; 2 fileservers and 3 hosting servers. The first fileserver stores backups, these are the files that the committees and board use, as well as mails and other data from various applications. The other fileserver is the main fileserver, this where the important documents from the committees and the board are primarily stored, and directly accessed from the GEWIS computers. We have

about 15 TB of storage in this server available, currently we are using 10 TB (almost of which is used by GEFLITST for their photos!).

The other three servers all have the same purpose, and they actually act as one server together. We call them the “hypervisors”, which is fancy term for the fact that they host even more computers in them, not physically of course, but virtually. These are called “Virtual Machines”, you might have used them on your laptop for a course. On these 3 physical servers there are 14 virtual machines, such as one for the mail, one for the databases, two for authentication of the member accounts, etc.

Due to the fact that these servers encapsulate even more virtual servers, they must have even more resources available than normal, which they can divide over the servers. Where all the laptops from the university have 16 GB of memory, our biggest server has around 190 GB of memory.



To acquire these machines, we usually look at companies to help us out. One of our current servers was already gifted from Prodrive, which we received in 2021, and now a second one from Prodrive is joining the family.

Prodrive is an engineering and technology company based in Eindhoven. They have their own custom line of servers called the Zeus Xeon Scalable series, they are usually placed next to the machines, tools and devices of their customers, and take the heavy load of image processing or motion control. Luckily, we can also use them as a hypervisor server, specifically we are replacing one of the other hypervisors with this new server. Actually, they were so kind to gift us 2 servers, but as we only had use for 1, we gave to other one to GEHACK for their programming competitions.

This server (together with the other one) will be helping us run the association. One of the things it helps with are the virtual desktop environments that active members can use to

remotely connect to the GEWIS computers. We also have 4 different virtual machines that are used for docker hosting, these host things like the GEWIS website, SudoSOS, our wiki, as well as other applications that we use for managing the whole infrastructure. We also have our own mail server, that allows us to mail via @gewis.nl, but also connect various application to this, such as SudoSOS to mail people about their fines. Finally, we have two servers that manage the active member accounts, and which rights they have for their committees.

If you thought this was interesting, and would like to know more, please reach out. We are searching for new members to help us maintain this infrastructure, so also contact me or somebody else from the CBC if you want.

From the CBC, I would like to, and therefore do, thank Prodrive for being so kind to help us out with these servers, as well as the external affairs officer for the contact with Prodrive.



# YO BROTHA

*I never thought I would ever be asked to write something about you for an article of a student association. My little brother, chairman of a committee and so actively involved in student life? I would never have guessed that in a million years.*

TEXT Victor's brother

Back in the day, we would wake up at 7 a.m. on a Saturday, just to fight over who of us could play Minecraft on the computer while the other had to watch. Being on the computer was your favourite thing to do as a teenager. You were always busy on that thing, playing games with your friends or teaching yourself how to code to do all sorts of projects, all day, all night.

Nonetheless, you still managed to get very high grades in high school. I used to call you a nerd, but I guess I was just a bit jealous of your performances. When we graduated high school, you went off to Eindhoven and I was surprised by all the stories you told about your student life at the dinner table back at our parents' house. Joining all sorts of student associations like Twist, GEWIS and, of course your board year for the Ecomotive project, and all that while doing not one but two bachelor's degrees. I am so incredibly proud of you and how you have grown!

Alright, now it is time to tell you something about some, maybe embarrassing but very cute old pictures of me and my brother. When we were young, we always went camping with our parents somewhere in Europe and as you can see, we

were definitely the cool kids on the campsite. I have so many great memories of those vacations with you, doing so much fun stuff, but also of course the fighting about who could sleep where in the bunkbed of the caravan.

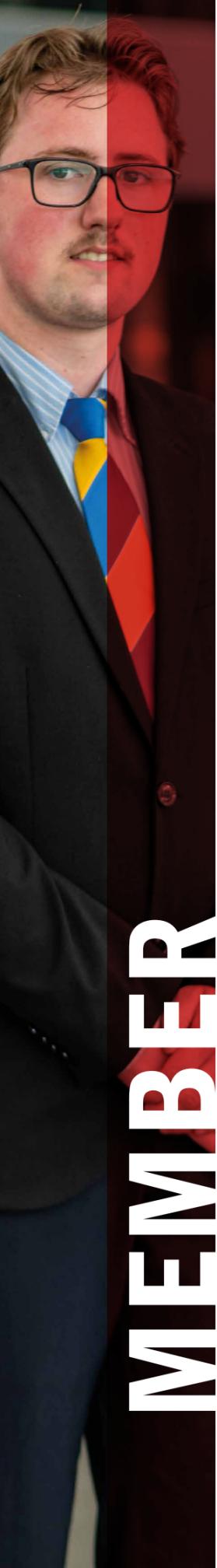
In the winter we often went skiing or sleighing. Either way we went so fast that our mom made us wear helmets. Don't worry, Victor didn't lose his teeth in an accident, he was just teething. Furthermore, you can see that



Victor has always had curious and scientific mind. Here you see him exploring the system of bodily fluids. Lastly, I found a cool picture of Victor with his first gaming headset that he got for Sinterklaas!

Victor, you have always been such a sweet, cute, loving boy and I'm so lucky to have you as my brother. I am so proud of you and who you have become and I am confident that you will become very successful in life. Love you, brother. Challas!





MEMBER

# FROM THE DRIVERS'S SEAT

*In the morning, while everyone is still sleeping, I step into my bus, adjust the mirrors and the seat, and start the engine. I drive towards the bus station, where I can see the first people waiting to be transported all throughout the greater Eindhoven area. I let the people in the bus, greet them warmly, and once I receive the signal to depart, I leave the station. I meet some colleagues and give them my personal "buswuij." For the next hours I drive all over Eindhoven over different routes, until it is time to go home.*

**TEXT** Lucas van Honk

The main question you probably have is why I have become a student bus driver. The answer is simple. After moving to Eindhoven, I was looking for a job. I did not want to work in the supermarket or any other typical student job. Then, while scrolling on Instagram, I came across a post by the local bus company stating that they were looking for students. As I was curious, I applied and got accepted.

Another reason why the job really stood out to me is my past experience with buses. My Granddad also worked as a bus driver and as a little child I loved riding with him to places all over the Netherlands.

Now you might ask, what is next after you get accepted. Well, the process is quite lengthy. First you will undergo screening and medical and psychological testing.

If you pass both these tests, you move on to your first lesson in a bus. This lesson determines how many hours you will probably need before passing the drivers exam. Meanwhile, you also need to study for the three theoretical exams. The first theoretical exam is similar to the standard car theory test. The second focuses on how buses operate and what to do in case of breakdowns. The last exam covers paperwork and the Code95 certification,

which is required for all bus and truck drivers to prove they can safely transport people and cargo. After completing your driving lessons and passing all exams, you take the practical test. Once you pass this test, you officially earn your bus driver's license.

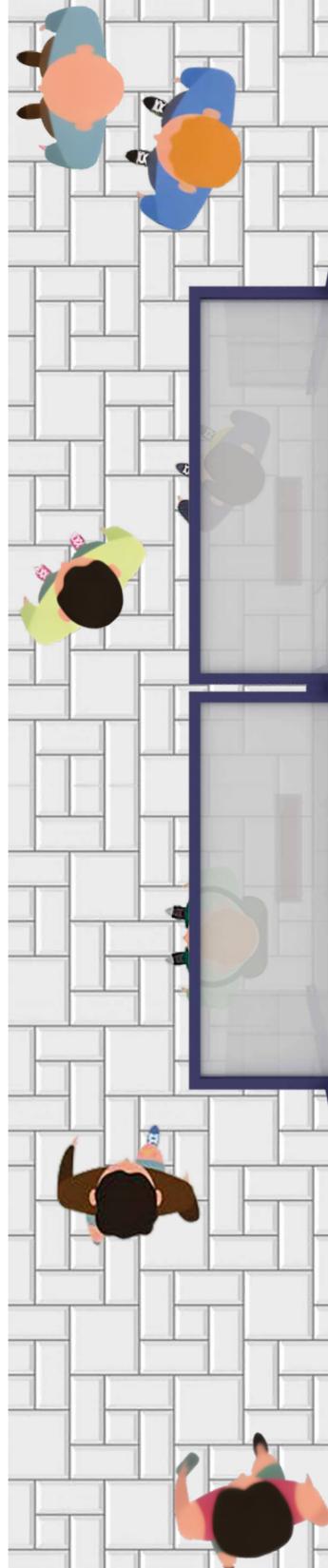
Then the fun part begins! You start driving with a mentor and learning all the routes. Here in Eindhoven, we have two types of routes: Eindhoven city (Eindhoven Stad) and Eindhoven regional (Eindhoven Streek). City routes mainly cover Eindhoven and Veldhoven, while regional routes extend across the Southeast Brabant region. These routes take us to places like Helmond, Valkenswaard, Reusel, Bladel, Gemert, and Uden. Since we don't have GPS navigation, we have to memorize all the routes—but luckily, it's not too difficult.

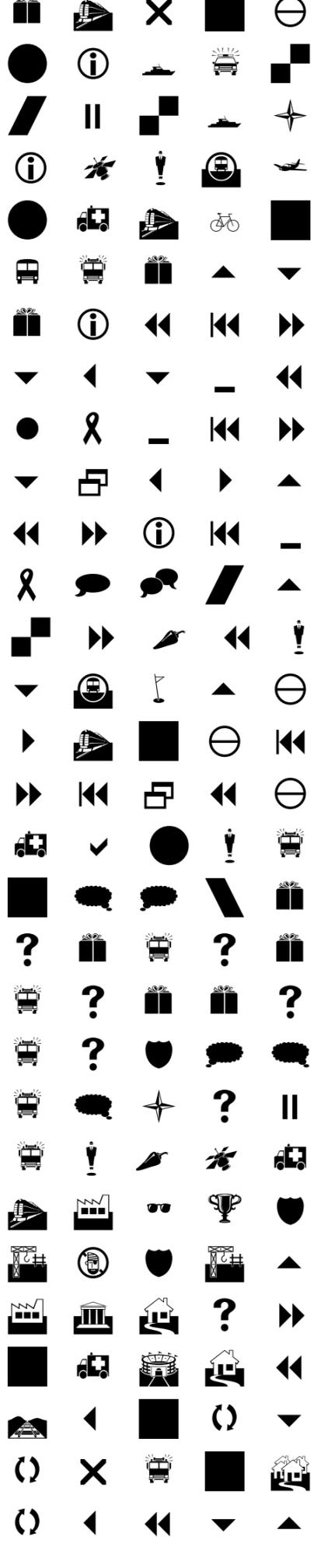
Looking ahead, I believe the bus company could learn a lot from students and the university and potentially benefit from their expertise. With the introduction of electric buses, the rise of ASML, and the aftermath of the pandemic, the company faces many challenges. I think the Department of Mathematics and Computer Science could play a significant role in solving these issues. From optimizing bus charging schedules to improving the efficiency of routes and timetables. As for me, I will be driving around the city for the next couple of years and see what I can do to improve public transit. That was everything from my side;

Last stop, the end of this article, please don't forget your belongings and we wish you a pleasant day!



# HONK HONK





# I LOVE COMIC SANS

For a while now, I've been intrigued by fonts. What is a Serif? Why do some fonts have Sans of it? Why does Comic only have the Sans, is that why we hate it so much? And the most important question of all, why do people keep using Algerian? (Please stop using Algerian) Please embark with me on this journey, where we both get to learn about fonts, how they work and what they mean.

TEXT Arend Roijakkers

First of all, I am apparently naming these things wrong. A font is a specific version of a typeface (like **bold**, roman or *italic*). So, from now on, I will be referring to a unified design of letters and other symbols as a typeface.

So first of all, a stroke. Strokes make up letters. Simple. The main vertical stroke is the stem. An m has three stems, while l has only one. Now for the interesting part; a stroke that rises above the x-height (the height of an x (crazy)), is an ascender. Like bx, dx or kx. Strokes that go below are descenders, like in jx, qx or yx. A closed stroke is a bowl (b, d, o), and a bowl with a flat end is a lobe (P, D). Lastly, the dot on an i or j is called a tittle! Very cute. By the way, there is a lot of body terminology, like the shoulder in R, tail of j, leg of K, ear of g, and arm of T.



So to answer the first question, what is a serif. Well, it's the little thingy at the end of your letters. Like the **C** and **C**. The **C** has those little thingies, those are the serifs. So a sans (without in French) serif font doesn't have serifs! Wild. I actually never knew this.

Okay but then what is the Sans in Comic Sans. If sans means without, what does comic sans not have (except for readability, love, and worldwide appraisal). Well it's just still sans-serif, but I suppose having the serif in there would be too adult and too boring for this wildly

playful font (I am truly sorry for any comic sans lovers, but you made a terrible mistake).

Then the last question that remains for now, is what is Roman. I have more often seen it appear, most notably of course in Times New Roman. But what is it?

So Roman is one of the three main kinds of historical type, alongside Blackletter (These kinds of German-feeling letters), and Cætic letters (Which look weird). And then Roman divides into serif, sans-serif and script. So Times New Roman is just a New Roman font for The Times. Wonderful.

**This conclusion is merely here to beef up the text** and utterly confuse you with various fonts and **typesfaces** and *signs* and ascenders and descenders (THAT WORD CONTAINS NO ACTUAL DESCENDERS, WHICH IS SAD), and of course a lot of comic sans. More than any human would wish for. My search into fonts is not done, but I have at least made a start in the terminology, and hope you learned something new as well.

Oh yes and there is a spectral font, which looks like this. That's the link to the theme. Kisses, Arend

# FSE-TEN

Every month, two delegates of the board have a meeting together with all FSE associations. Here, important topics are discussed such as the BorrelXL, the MomenTUm workgroup and the finances of FSE. Afterwards we always eat together, then the rest of the board members also join. Each month one of the associations opens their member space and cooks a delicious meal for everyone joining. In February it was GEWIS's turn, and we made a delicious and very easy couscous salad.

TEXT Jens Knapen and Robin van Dijke

The reason we chose to make a couscous salad, was because you do not need appliances such as an oven or stove to make this dish, which means we did not have to rent a kitchen. Instead, we only needed the very big pan (the one we also use for the consti) and a kettle to boil water.

Since we needed to buy a lot of food, we ordered it online and let it deliver to the GEWIS room. Below you can find our shopping list:

- » 2.8 kilogram couscous
- » 2 kilogram pomegranate seeds
- » 11 cucumbers
- » 24 limes
- » 900 gram corn
- » 160 gram mint
- » 0.5 liters traditional olive oil
- » 36 tomatoes
- » 3 kilogram carrots
- » 1.8 kilogram white cheese



## STEP 1

Cut the cucumbers, carrots and tomatoes in small cubes and juice the limes.

## STEP 2

Boil 3,85 Liters of water, using the kettle.

## STEP 3

Put the Couscous in the big pan and add the boiled water and 5,5 tablespoons of olive oil. Stir well and cover the pan with the lid.

## STEP 4

Let the couscous steam for a few minutes.

## STEP 5

Fluff the couscous with a fork and add an extra 5,5 tablespoons of oil if desired.

## STEP 6

Add the cut cucumbers, carrots and tomatoes to the pan. Then add the pomegranate seeds, corn and mint. Lastly, crumble the white cheese over the couscous salad.

## STEP 7

Give everything a good mix and serve!

So, if you ever need to cook for approximately 43 people, hereby a recipe that worked great for us and was very tasty!





COLUMN

# SPAR BROODJES REVIEW

*At last, we once again grace you with our presence. And with us, a new SPAR broodjes review. With new broodjes being introduced, we felt it was time to bring out another review. We have heard your feedback, and this time the article won't be six pages long. Instead, we will rate and describe 5 SPAR broodjes (and a perenijsje!) in only two, most magnificent (according to the audience, of course), pages.*

**TEXT** Lotte Lakeman and Arend Roijackers

## EMPANADA KIP PIRI PIRI

LOTTE: ★★★★★

AREND: ★★★★★

Our first impression of the empanada was that, overall, it looked pretty good. When we cut into it there was enough filling and the filling itself also seemed tasty. Upon both taking a bite we agreed: this empanada is tasty! Arend noted it had a little "kick" in the back of the throat – a little tickle. Lotte did not know what he was talking about. For a SPAR snack we definitely considered it to be well-seasoned. Overall, this was a nice snack and we enjoyed our time with it. The only downside of this empanada is perhaps its competitor: the empanada carne which was famously rated 5 stars last time. The empanada kip piri piri is good, but it simply does not live up to the standards of its bigger brother.

## BOREK KEBAB

LOTTE: ★★★★★

AREND: ★★★★★

Aside from having a stupid name (it is not kebab???) the borek looked fine. The borek has some nice sprinkles on the top, but the sides were a bit plain looking. When we bit into it, it was incredibly flakey. This is of course expected, but when you are eating it on the go it might not be as nice. However, upon eating, the texture was not what it seemed. Within seconds, the crunchy, flakey borek turned into a fatty, mushy paste. The taste of it was nice, however the aftertaste was different, and according to Lotte, a bit corny (Arend did not understand this at all). It was less tasty than the Empanada, but still a solid option if you want something longer and more stick-like.

## PALETTE CLEANSER

LOTTE: ★★★★★★

AREND: ★★★★★

Board Robin brought us a palette cleanser perenijsje. Lekker! Tastes of summer.

## ZWAMCIJSJE

LOTTE: ★★★★★

AREND: ★★★★★

First impression, the name is awful. It does not make us excited for this product. However, the idea of it is incredibly inviting. A mushroombased (oesterZWAM) saucijzenbroodje sounds nice. However, we immediately think it looks dry and empty. Could have had more filling. Upon eating, a world opened for us. This is what the university snack, that we saw in the last rating, always wanted to be. The filling, though it is not that abundant, tastes amazing. The very fatty dough of the normal saucijzenbroodje has been replaced with a better, crunchier, tastier dough. An incredible option amongst the SPAR broodjes, especially for vegetarians! *Weirdly enough upon eating the leftovers of the zwamcijsje, we both agreed that it did not taste nearly as nice as the first time. This caused Arend to change his rating from five to three stars, and Lotte to change it from four to three.*

## PANINI CAPRESE

LOTTE: ★★★★★

AREND: ★★★★★

We were really impressed with today's selection thus far, but it seems as if times may be changing. The first issue occurred when we tried to lift the panini from the napkin. The hardened melted cheese had absorbed some of the green printing ink of the napkin. Already, this was disappointing, but then the real issue occurred. Cutting this panini was like cutting into a sponge, unpleasant. The bread appeared very dry and unappealing. It was unanimous, this panini is not worth the money. Upon tasting it we agreed the bread just was dry and the cheese was also dried out so it didn't have a pleasant mouth-feel. Furthermore, it did not really feel like a panini caprese. The tomato and pesto were barely there. Somehow this panini tasted like a caprese-flavoured panini, but not like a panini caprese. *Upon eating the left-overs this was the one we both started with, "just to get it over with".*

## CINNAMON ROLL

LOTTE: ★★★★★

AREND: ★★★★★

The packing of the cinnamon roll is sub-optimal. Removing the roll from the brown cupcake-like holder was a bit of a hassle as it kept sticking to it. We both expected the cinnamon roll to be quite dry, but upon taking a first bite we were very pleasantly surprised. The cinnamon roll is not dry whatsoever and the icing adds a nice touch. It has a good cinnamon flavour, and it is not overly sweet. Every bite has a nice amount of cinnamon, ensuring you are never left with just a roll. The cinnamon roll made Arend want to buy a vacuum cleaner (Lotte feels as if there is a joke somewhere, but does not get it). Gene would be proud of this cinnamon roll, despite not being from Cinnabun. Overall, really a nice and tasty cinnamon roll, but it is nothing special necessarily.



# GELIFT ELEVATOR REVIEW

*As GELIFT, we are really passionate about forms of transportation. While this usually presents in our tendency to enter strangers' cars in an attempt to get to Hamburg, at times we prefer a more relaxing experience. Every once in a while, we choose a cozy elevator and enjoy the music while it elegantly brings us to our desired floors. Although none of the elevators present on the campus have any music, we have decided to do a full-blown analysis of every elevator you might visit on your daily campus life, and provide you with some insights.*

**TEXT** Koen Deen - GELIFT

We decided on a few key performance indicators before testing the elevators.

## PHYSICAL COMFORT

All elevators vibrate and make noise, but which of them do this the least? We noticed that the average decibel levels for each elevator were relatively close, ranging between 40 and 70. Auditorium, the Zwarte Doos and Gemini make up the elite, though the outside elevator of Gemini drags the building down in this regard. The aspect of vibration was much more even across the board. However, clearly the worst in this case were the elevators in Matrix, which took off and landed with a hefty thud.

## AESTHETICS AND VIBES

Every good elevator should have a nice view (a good mirror suffices) and a pleasant aroma.

Disappointingly, a lot of elevators on our list had no mirrors present at all. Luckily there was one building which really stood out here, which was MetaForum. All the elevators here had an abundance of mirrors and were therefore rated royally. Additionally, the glass

elevator in Auditorium and the elevators in Vertigo had a great view and were therefore ranked very high as well.

In aroma quality, MetaForum scored well once more. It is clear that these elevators are well-maintained. We also assessed the vibe and the mood lighting. This was quite mediocre in most places, but highlights include the outside elevator of Gemini and the glass elevator of Auditorium.

## SPEED

A good elevator should not only be pleasant to ride, but also practical and efficient. That's why we tracked the speed of each elevator and tallied it all up for you. Scoring top in their class were the elevators in Flux with a whopping 1.9 seconds per floor. Lowly at the bottom is Alpha with a whole 8.5 seconds per floor. We suspect this is the reason nobody ever comes here.

## THE RESULTS

Finally we will provide you with our top 3, and the worst one of all.

### MF

- » Comfort: ★★★★★
- » Ambiance: ★★★★★
- » Speed: ★★★★★★
- » Most well-rounded elevator overall
- » Total score: 72.51

### AUDI (GLASS)

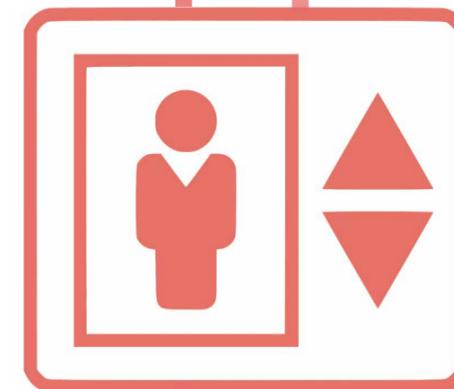
- » Comfort: ★★★★★
- » Ambiance: ★★★★★★
- » Speed: ★★
- » Top ambiance experience
- » Total score: 72.24

### ATLAS

- » Comfort: ★★★★★
- » Ambiance: ★★★★★
- » Speed: ★★★★★★
- » Strong all-rounder with great speed
- » Total score: 68.22

### GEMINI (OUTSIDE)

- » Comfort: ★★★
- » Ambiance: ★★
- » Performance: ★★★★★★
- » Slowest elevator and overall mediocre vibes
- » Total score: 33.77



# MEET THE KANDIES!

**O** e oe a a GEWIS,

as you may have chimpanseen, starting from the 28th of April, we have been hanging around the GEWIS room as the lovely monkeys we are.

However, since for us primates verbal communication is difficult, we have written a jungle book to introduce ourselves.

TEXT Kandies

## CISKA

The introductions, of course, start with our beloved Chair Ciska. Interestingly, not everyone calls her Ciska, since it's actually short for Franciska. You might wonder shouldn't that be abbreviated to Frans? After all, Franciska means "the French" (or de Franse in Dutch), so it would make sense. But strangely enough, our chair prefers to be called Ciska.

She was born and raised in the small village of Koudekerk aan den Rijn. Though she is proud of the cows and the grass of her home village, she eventually traded the peace and quiet for the bustling metropolis called Eindhoven. Originally, she enrolled in Electrical Engineering, but quickly realized her true passion lays elsewhere in Computer Science. After switching programs, she was able to join GEWIS and the second best FYC of her year, DeBugKing, and made her mark as a skilled secretary.



32 | Supremum 57.2

Since then, Ciska has really grown into our association. She does everything from baking cakes and going on hitchhiking adventures to managing our computer systems. She is also well known for her role in the fraternity ATHENA, where she has already proven herself as a capable chair.

But there's more to Ciska than just GEWIS. She has a musical side, too. Before choosing her current path, she was accepted to the conservatory for her cello skills. Though she didn't pursue it professionally, she still enjoys making music, especially singing. And lucky for us, next year we'll all get to hear her sing at our parties, as the 44th chair of GEWIS.

## STIJN

This is Stijn, your future Secretary. To give you a first impression, some of Stijn's favorite quotes from being the Kandi Secretary are "No but I write the minutes, I decide," "No Ciska I won't be writing that action point," and "I won't just be the minutes guy." Don't worry, Stijn is a lovely person and will be an even more lovely secretary.

Stijn was born in Weert, but has lived in the beautiful town of Heel for the rest of his life. Stijn was a very smart kid, even being raised quadrilingual! He speaks Dutch, English, German, and of course Limburgs, and will gladly show that off if other Limburgers are nearby. Now, Stijn is a proud and active GEWIS member. As a



Défi feut, member of many committees, and avid visitor of the borrels, you can see Stijn hanging around a lot. And, if you want to get into his good graces, just get him a beer. I mean you are Limburgs or you are not, right? And now as the cherry on the cake, he will be the Secretary of the upcoming board of GEWIS. So, if you want to get to know him more, go to a borrel, find him at a Défi activity, or simply see him hanging around the GEWIS room.

## HISKE

Then we introduce our candidate Treasurer: Hiske Kolner! Like the rest of us, she is a third year Computer Science student. Hiske moved to Eindhoven 3 years ago from the middle of nowhere, also known as Hengevelde. If you ever want to annoy her, just ask her what "Achterhoek" is like, as these are two very different places.



After moving here, she quickly became active at GEWIS in her FYC 50/50. Wearing the black and red clothing of their FYC, she could be found at (almost) every borrel. In her first year she also met her current boyfriend, who she has been with for 2 years and even lives with. He introduced her to Twist, where she has been cheerleading for 2 years now! Usually she is a base, but sometimes you can see her flying through the air as well.

She also joined several committees over the years, like GELIFT, GEDWAAL, AViCo, GETAART and GEVAL, where she always brings a happy vibe and snacks to the meetings. Hiske has a real sweet tooth, so she is probably the person buying most of the Haribo available at GEWIS. To afford all of this, she has a parttime job at LIS, where she has been the first to introduce lollypops for any children visiting the front desk. We are happy to have her as our candidate Treasurer and think she will do great next year!

## KIM

Now it's time to introduce our future Internal Affairs Officer, Kim van Alphen! Kim is, just like the rest of us, a third year Computer Science student. Unlike the rest of us, she is the only true Brabander out of our group, as she has lived in Brabant her entire life, growing up in Oosterhout. Now Kim lives in Eindhoven, where she has quite a unique living situation. Instead of a student house, Kim actually lives in her very own house!

Living here comes in handy for Kim. She is very active, both in and out of GEWIS. Outside of GEWIS, Kim can be found running around on the hockey field as part of her team the Matchmakers. But we're here not here to talk about hockey, so we will continue with her GEWIS career. Kim has been an active member for a while, in her first year she joined the (almost winning) FYC DeBugKing, and she has joined several committees since. You might have seen her behind the bar, as a member of the BAC, or you might have seen her being room responsible, fulfilling her RRC duties. Kim also helps with organizing GEWIS's career activities and keeping GEWIS's social media accounts looking great, with C4 and GSM.



All this committee experience means that Kim knows exactly what committees need. So, if your committee ever needs anything, or if you just want to have a chat with her, you can catch her at either side of the bar.



## SANDOR

Next up is Sandor, Sandor will be the Educational Officer of GEWIS. Sandor was born and raised in Utrecht ('Vo voor de Dom). Sandor is active in GEWIS as part of the CBC, GEHACK and AViCo where he looks after the technical systems of GEWIS, he is also a member of the fraternity I.V.V, with whom he will be drinking a lot of wine for the upcoming years.



Sandor is also an active person, he plays in a self-made band called The Shitpunks, together with 2 of his fellow

FYC 50/50 members, of whom also our fellow candidate board member Arend. The writer of this piece is looking forward to their first performance, even though it is still unknown when (hopefully soon!) this will take place. Besides playing the strings of the guitar Sandor also loves to cycle, run and does both long and shorttrack speed skating.

A fun fact is that Sandor already met one of his fellow candidate board members when they were (a lot) younger and were both doing shorttrack in Utrecht. Although Sandor recognized Inge during their first year, she unfortunately could not return the favor (oops).

As upcoming educational officer, he already did a lot of KETEL 1 borrels, and therefore practiced a lot with shouting their infamous cheers "Vo voor de CO", seeing how this went the past couple of times, and how he is always willing to help others, Sandor has all the skills he needs to be the next CO of GEWIS.

## INGE

The next person to introduce is Inge Schermer. She is going to be our External Affairs Officer next year. Inge was born in Utrecht and a couple of months later she moved to Houten. She is 20 years old (when I am writing this) and is in the third year of her Computer Science bachelor. Where she is also taking the educational track to get a license for teaching math in high school. Inge's journey in GEWIS started in 2022 where she was chair of the FYC DeBugKing. In her first year, she also joined the work group ODC, where she organized the parent days. After getting her BSA she joined GETAART, GESPORT, and the SR. However, she is most fond of her fraternity ATHENA, where she fits in well. You can see this because she loves drinking mocktails and eating/baking pies. Lastly, she is also chair of GEVAL where she organizes the studytrip to the USA and Canada in the Summer.

Next to GEWIS, Inge is also an active member of Attila (the Korfbal Association). Where she trains 2 times a week and plays competition on Saturdays. Another fun fact about Inge is that she has a twin sister Anne.

So, if you see two Inge's walking next to each other do not be alarmed.



To top it off, Inge is a really nice, smart, and especially sweet girl. If you want to know more about which mocktails to get in Hubble, korfbal, or other things, you can always go talk to Inge. Watch out when you talk to Inge, because she can get a bit hangry, to avoid this bring a piece of chocolate. In all seriousness, we could not wish for a better External Affairs Officer.

## AREND

Last but not least, we will introduce Arend, who will take on the seventh function of Community Development Officer! Arend is 21 years old and a third-year Computer Science student. He was born in Ossendrecht, which is almost in Belgium and he later moved to Brandwijk, which is near Dordrecht and Rotterdam.

When Arend started studying, he joined FYC 50/50, which turned out to be a great friend group. He designed

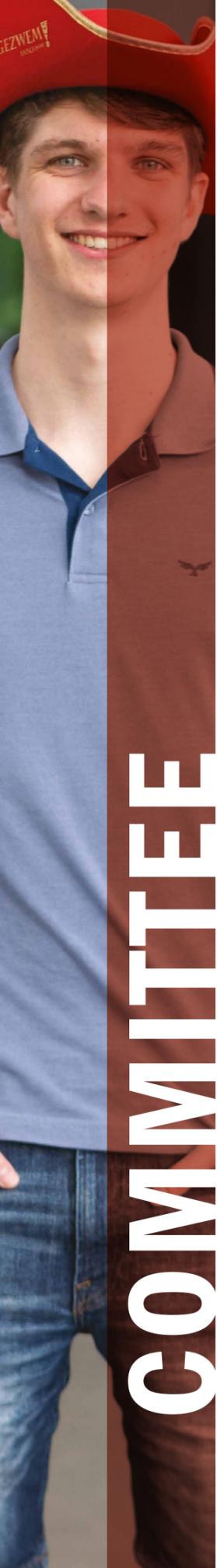


their logo and helped organize a nice casino night at GEWIS. He was also often present at borrels and activities and joined the ODC in his first year. So, it was no surprise that Arend stayed active after his first year. By now, Arend has quite a list of committees under his name that he is or was part of, from GEHACK to Supremum and quite a few more.

With all of the things Arend has done at GEWIS already, there is only so much more he could do for the association. One of those things was of course a board year, so that is what Arend decided he wanted to do next. Arend is bravely going to take on our seventh function, which comes with a lot of freedom and creativity of course.

Arend will take on the function of Community Development Officer, which greatly reflects GE in GEWIS, which stands for 'gemeenschap' (community). Arend is going to improve GEWIS' tutor system and hopefully improve and expand the active members culture and physical wellbeing offer of GEWIS.





COMMITTEE

## A TRUE GEZWEM STORY

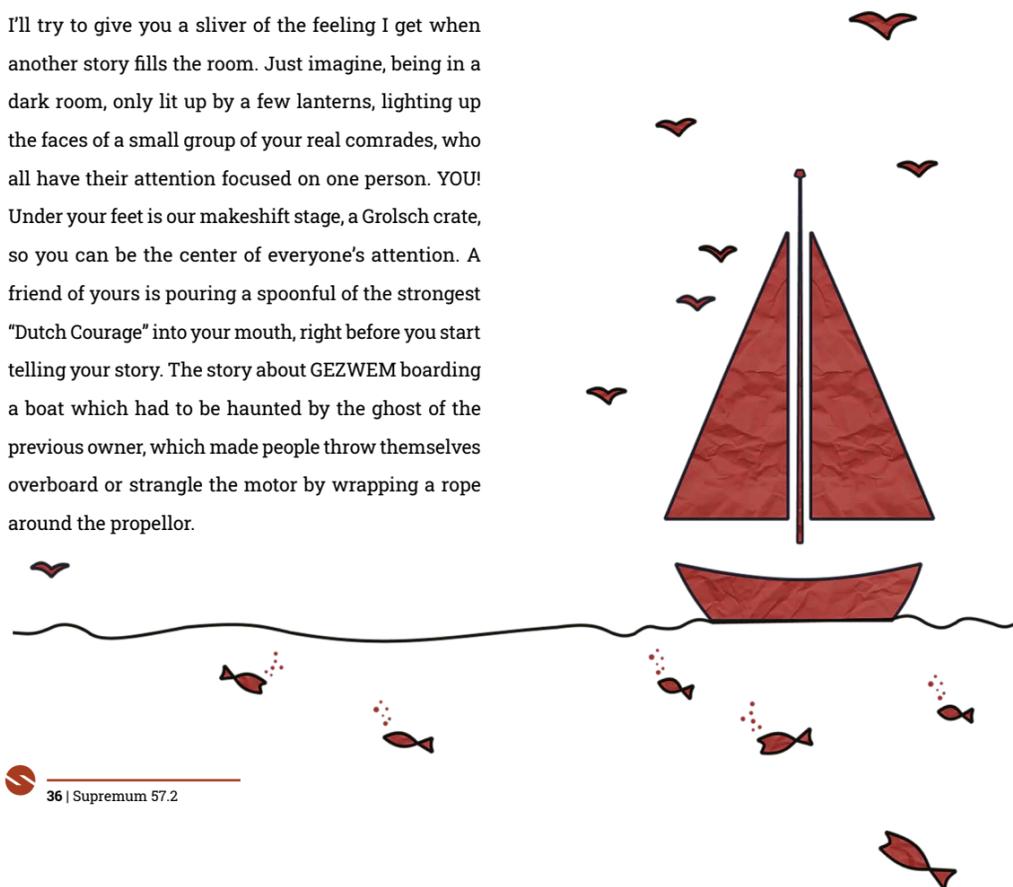
**B**eing on the water has always held a certain magic for me. Perhaps it's the soothing sound of ripples in the water, paired with the whispers of a gentle breeze that rocks you gently. Or maybe it's the raw feeling of power and control, captured from taming the strongest storms and conquering the wildest waves. It might even be the sheer variety of experiences you can have—all within the same day—which made me interested in sailing, windsurfing and kitesurfing. But regardless of the source of this love, I know it doubled as soon as I joined GEZWEM!

TEXT Nick Broeks

Besides having another excuse to go sailing again, GEZWEM offered me the ability to enrich the amazing experience I have with the arts of sailing, by extending this joy to the shore-side. They introduced me to their culture with activities like visiting old-school brown cafés or sharing stories about our most courageous moments by nightfall, throwing frisbees and figuring out how to raise the sails by sunrise. Moments like these can turn the least windy days in the most adventurous experiences.

Since I'm telling a story now, and you are reading it, I'll try to give you a sliver of the feeling I get when another story fills the room. Just imagine, being in a dark room, only lit up by a few lanterns, lighting up the faces of a small group of your real comrades, who all have their attention focused on one person. YOU! Under your feet is our makeshift stage, a Grolsch crate, so you can be the center of everyone's attention. A friend of yours is pouring a spoonful of the strongest "Dutch Courage" into your mouth, right before you start telling your story. The story about GEZWEM boarding a boat which had to be haunted by the ghost of the previous owner, which made people throw themselves overboard or strangle the motor by wrapping a rope around the propellor.

Some might say stories like these seem very unreal and feel like they must be exaggerated, not unlike how you might feel about this article. This could be caused by the countless times a story has been passed from person to person, or the fact that the way things happened might not be the way someone experiences it. From all my moments with GEZWEM, living in the stories, hearing the stories and telling them myself, I can assure you: Behind every story is some form of truth; some emotion trying to find its way to others, and a storyteller who might even convince themselves they are telling the truth.



## IN THE SPOTLIGHT

**T**he Cambridge Dictionary defines spectral as an adjective meaning "coming from or seeming to be the spirit of a dead person." It's easy to feel spectral in the vast sea of people and possibilities at university; I certainly do when I finish late-evening study sessions in the GEWIS lounge, fuelled by nothing but an endless supply of green tea from my favourite object on campus—the GEWIS room's free coffee machine.

TEXT Sophie Gottschalk

Yet, as a first-year student, I've also never had more opportunities to feel alive, to feel different. Moving from Germany, I didn't expect much change when I chose to study Computer Science at TU/e. Eindhoven shares much with my hometown, Hamburg (including the belief that umbrellas are for the weak). I already spoke some Dutch, having spent eight years in The Hague due to my father's job. Still, the first quartile was an ice-cold shock. The social chaos and celebration of intro week quickly gave way to homesickness and the unrelenting academic pressure of Q1. As cliché as it sounds, the latter half of 2024 was a tiring, often lonely, emotional rollercoaster.

Hence, I've come to cherish GEWIS as a place of belonging. There's comfort in knowing I can step into 'het Dakterras' and instantly find someone to chat with, or that I can always ask older students (shout-out to my mentor) for advice. I still meet my adoptive intro-mother for dinner now and then, though I am yet to top the first meal I cooked for her—a Mexican-inspired chicken stew. Tuesdays are firmly reserved for the company lunch lectures (who would refuse both free lunch and career orientation?), and of course, I can't omit my wonderfully chaotic first-year committee, BARB/ie, recognizable by our obnoxiously pink hoodies.

So, going into the end of my first year, I'd like to feel a little less like a ghost. Attending borrels more regularly is a goal—partially to practice my Dutch! Admittedly, my lack of enthusiasm for Dutch beer might make that resolution tricky. I want to be a tutor and join some committees (maybe Supremum?) next year too. The pinboard above my desk already combines memorabilia from home with photos from GLOW, a Jägermeister bottle from my post-exam ski-trip with friends and a GEWIS Christmas card, but there's some space to left fill! Nevertheless, some things will never change: my firm belief that walking is superior to biking likely prevents me from ever fully integrating into Dutch student life.

Interestingly, Cambridge Dictionary has a second definition for spectral — "of the set of colours into which a beam of light can be separated." When I (hopefully) finish my bachelor's in three or four years, I don't want to look back at my study as a time of ghostly, grey presence in the library. Instead, I hope to remember it as a spectrum of experiences—blues, greens, yellows, purples, and, of course, GEWIS red.



MEMBER



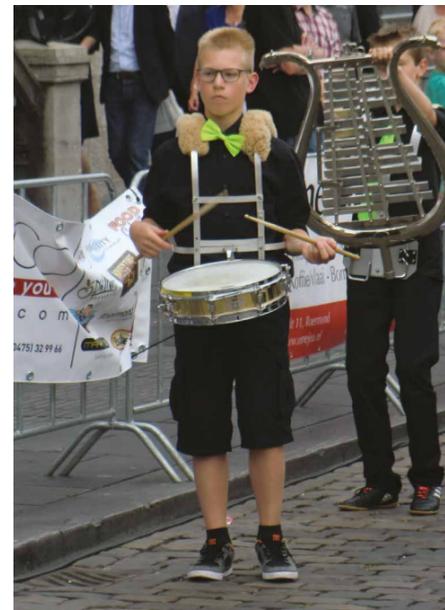
COLUMN

# THE SHITPUNKS

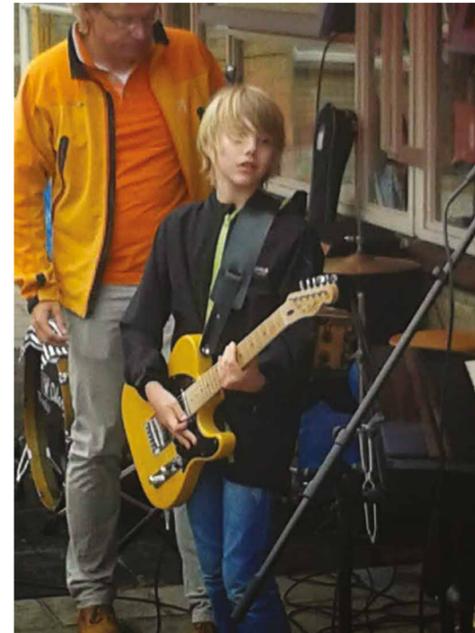
*This is a piece about following your dreams. Follow your dreams kids, don't do drugs, and go to school. Thank you.*

TEXT Arend Roijackers

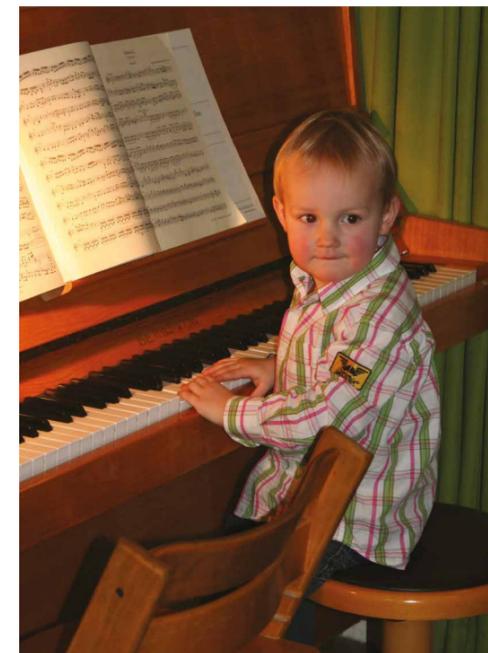
First of all, there is Willem. Willem, as all kids from Limburg, was drafted into "De Harmonie". Here he became a master of the recorder and just banged some shit. Then when the moment came to choose your instrument (which is about comparable to choosing your starter Pokémon), he famously spoke the words: "I want to bang shit". And so, it started. A journey of hitting drums, walking while hitting drums, winning solo competitions on the drums (very proud of that one), and eventually investing a god forsaken amount of money into a real drumkit. And like any child that bangs shit, he got into metal. But like, metal. The actual stuff. And all metal he can do with relative ease, but make this man play a ghost note or something that could at some point resemble jazz, and he will either get a panic attack or throw a tantrum.



When Sandor was about 9, he wanted a guitar. His parents almost pressed an acoustic guitar into his hands, until Sandor muttered, and I quote, "Na eat shit I want to be a rockstar", and then his parents got him his first electric guitar. And because children are stupid, his parents (successfully) looked through the jungles of Brazil, the deserts of Libya and the steppes of Mongolia for a guitar teacher who would teach this frivolous young lad the electric guitar. And so, for the next 10 years, Sandor practiced to be like his dad, a music virtuoso. Luckily, a guitar has frets, so he did not get thumbtacks on the neck of his instrument like his brother, who through pain had to find where the notes sat on his violin. And boy did this man grow to be a Guitarist with a capital G. He has all the characteristics of a Rockstar guitar player: Is more capable than you think (sometimes); Is about as capable as expected when it comes to staying in time; Only wants to play the lead; does 'the face' when soloing, and of course can play Eruption perfectly.

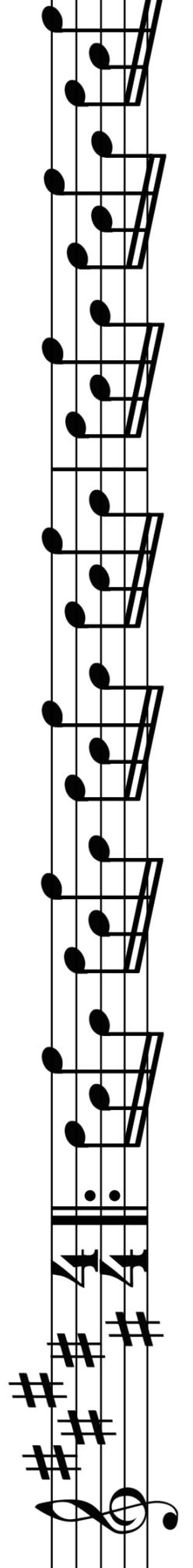


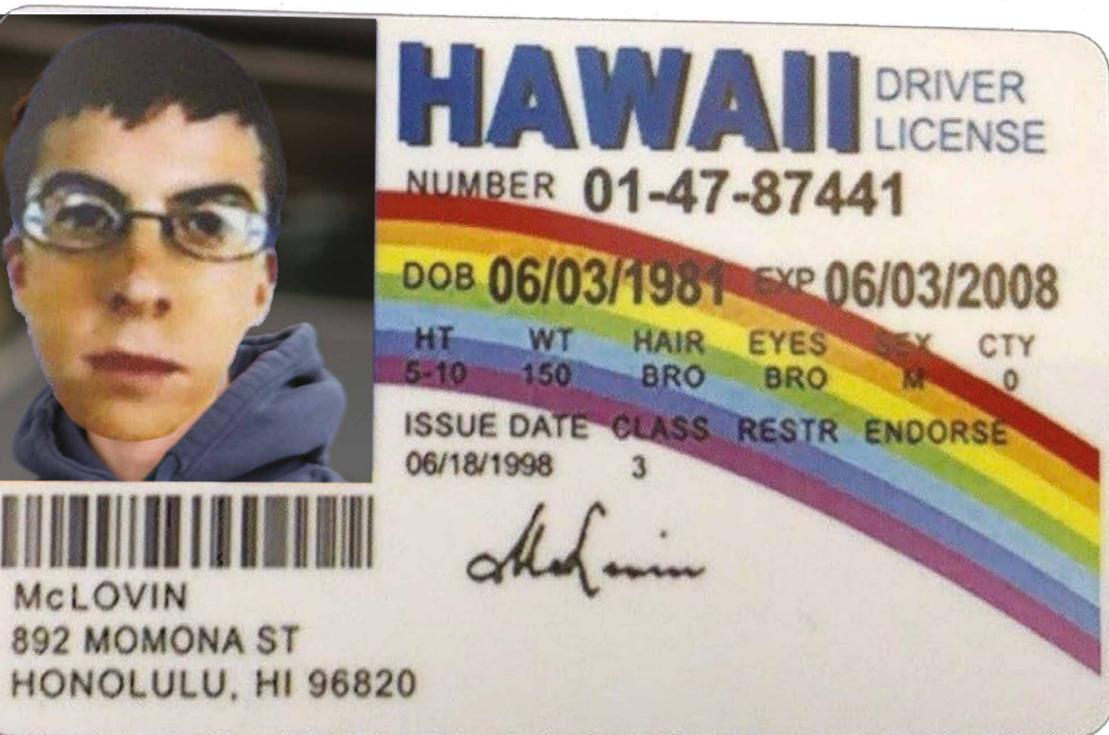
Lastly there is Arend. When he and his sister were young, at some Sinterklaas, they got two toys. A drum and a piano. Arend, being a little "snotneus", just wanted to hit things, so immediately chose the drum. This event was recorded, and the rest of the 5 minutes of footage are filled with Arend hitting on the drum like his life depended on it. The drum was taken away at the end. Now this didn't turn out to be his passion, especially after the drum broke. Then for years and years nothing happened, until the big piano of his sister (she did try to go a bit further), was left alone and dusty in a corner. This slowly turned into a little passion, and soon would start learning songs on it. Still, being the 'youngest' music player of the bunch, Arend is characterized by needing at least a week (sometimes more) to learn a song. Also, as a true synth player, he has far too many buttons and will fuck them up at least 3 times per song.



Currently, still sucking, but having a lot of fun. Ever growing. Just do it kids. The music might suck, you might get maybe one or two tantrums per session, but we are having fun making music. Making metal that is :).

Hugs and kisses,  
The Shitpunks





The photo of my identity card that I sent her

## STEP 3 (OPTIONAL)

### MAYBE CHECK THEIR BACKGROUND

You should obviously trust your confidant with all your heart, but to appeal to them more it might be worth it to do some research about them to better get to know them. For example, when reverse-image-searching the photo Feyza sent with her email, I found out that she models for Shutterstock images; she's very photogenic. Another thing I found out was that her original message was sent from some Brazilian Peugeot dealer's address. This obviously must have been her husband's account, and the Peugeot dealership was probably a side hustle to his job at the Turkish Consulate in Toronto she told me about.



IMAGE ID: 50524411  
www.shutterstock.com

shutterstock

# HOW TO GET €6,510,000 IN 5 EASY STEPS

People really overestimate how difficult it is to get rich. I mean, this only cost me a couple of emails, barely any effort at all. So hereby I present my get-rich-quick scheme and all the ins and outs that make it successful<sup>1</sup>. Make sure to follow it closely for maximum results.

TEXT Koen Deen

## STEP 1

### GET AN EMAIL FROM A BENEVOLENT DONATOR WITH A COUPLE OF MILLIONS LYING AROUND

Ideally this will happen on your personal email such that nobody else can snatch the opportunity before you do. If the email does manage to make its way into a shared inbox (e.g., the Supremum mailbox), convince your fellow committee members that you will handle the situation with care. If needed you can always share the money with these profiteers.

## STEP 2

### MAKE ACQUAINTANCE WITH YOUR NEW BEST FRIEND.

Everyone always asks 'Who is the Nigerian prince?' but never 'How is the Nigerian prince?' Get to know your pen pal and make clear you care for them. My contact happened to be a lovely Turkish lady with cancer whose husband left her 10 million euros. She only had 3 months more to live before she would die of cancer and also a stroke. Mrs. Feyza wished for me to use 40% of her money for charitable purposes and to keep the remaining 60% as a gift, for my effort and hard work. I immediately knew we had a great relationship in the works when she started her first email with 'Hello my dearest.'

## STEP 4

### MEET THEIR DEMANDS

It is only logical that your new BFF will need some information from you. This may include<sup>2</sup> but is not limited to your:

- » Full name
- » Living address
- » Phone number
- » Passport or identity card
- » Country of residence
- » Marital status
- » Age
- » Profession

Don't hesitate to give them all the info that they need, as it is probably all necessary for the bank transaction.

## STEP 5

### PROFIT

The only thing left to do now is to collect your prize. For this you might need to give them your credit card information, or as I offered, to fly out to Türkiye. In my experience, it works best to do exactly what they asked, and then they will give you exactly what you want. She has not yet confirmed that those millions are coming my way, but by the time you read this Feyza will have likely already passed away from cancer and also a stroke. I'm sure I will be spending her husband's money on all the charities she so adored.

The picture she sent with the email.  
(That scammer actually paid for the license lmao).

## COMMITTEES & FRATERNITIES

**G**EWIS is built on top of committees. Besides, Study Association GEWIS has several fraternities which contribute to the atmosphere and organize activities.

Find out more at: [www.gewis.nl/association](http://www.gewis.nl/association).

### FRATERNITIES

**ATHENA**  
ATHENA



**B.O.O.M.**

Buitenplezier Op Onze Manier



**Défi**

Défi

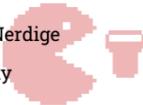


**GEPWNAGE**

GEWIS Plant Weer Nerdige

Activiteiten en Geeky

Evenementen



**I.V.V**

In Vino Veritas



### COMMITTEES

**ABC**

ApplicatieBeheer Commissie

**AC**

Activiteiten Commissie

**AVICO**

Audio- en VideoCommissie

**BAC**

BAr Commissie

**C4**

Corporate Communication and Contact Committee

**CBC**

Computer Beheer Commissie

**CC**

CarnavalsCommissie

**FYC25-1 Omnis**

First Year Committee

**FYC25-2 Icebug**

First Year Committee

**FYC25-3 Barbi/e**

First Year Committee

**FYC25-4 Drunkhoven**

First Year Committee

**FYC25-5 S.O.S.**

First Year Committee

**GEBALLMERPIEK**

GEWIS'sers Ervaren BALLen

MEt Rigoreuze Precisie In

Excentrieke Kups

**GEBEP**

GEWIS Borrows Euler's Proofs

**GEDWAAL**

GEWIS'ers Dwalen Waar

Anderen Anders Lopen

**GEFLITST**

GEWIS Fotografeert Leden In

Toffe Situaties, Toch?

**GEHACK**

GEWIS Ervaart Het

Algoritmisch Code Kloppen

**GELIFT**

GEWIS'ers Liften Ieder

Fantastisch Traject

**GEPaald**

GEWISers Plaatsen Alle

Activiteiten Langs Delft

**GETAART**

GEWIS'sers Eten TAART

**GEZWEM**

GEWIS Zeilt Weer Een Meter

**GSM**

GEWIS Social Media

**INTRO24**

Introduction Committee 2024

**INTRO25 ★**

Introduction Committee 2025

**MATCO ★**

Mathematics Tournament

Committee

**ODC**

Ouderdagcommissie

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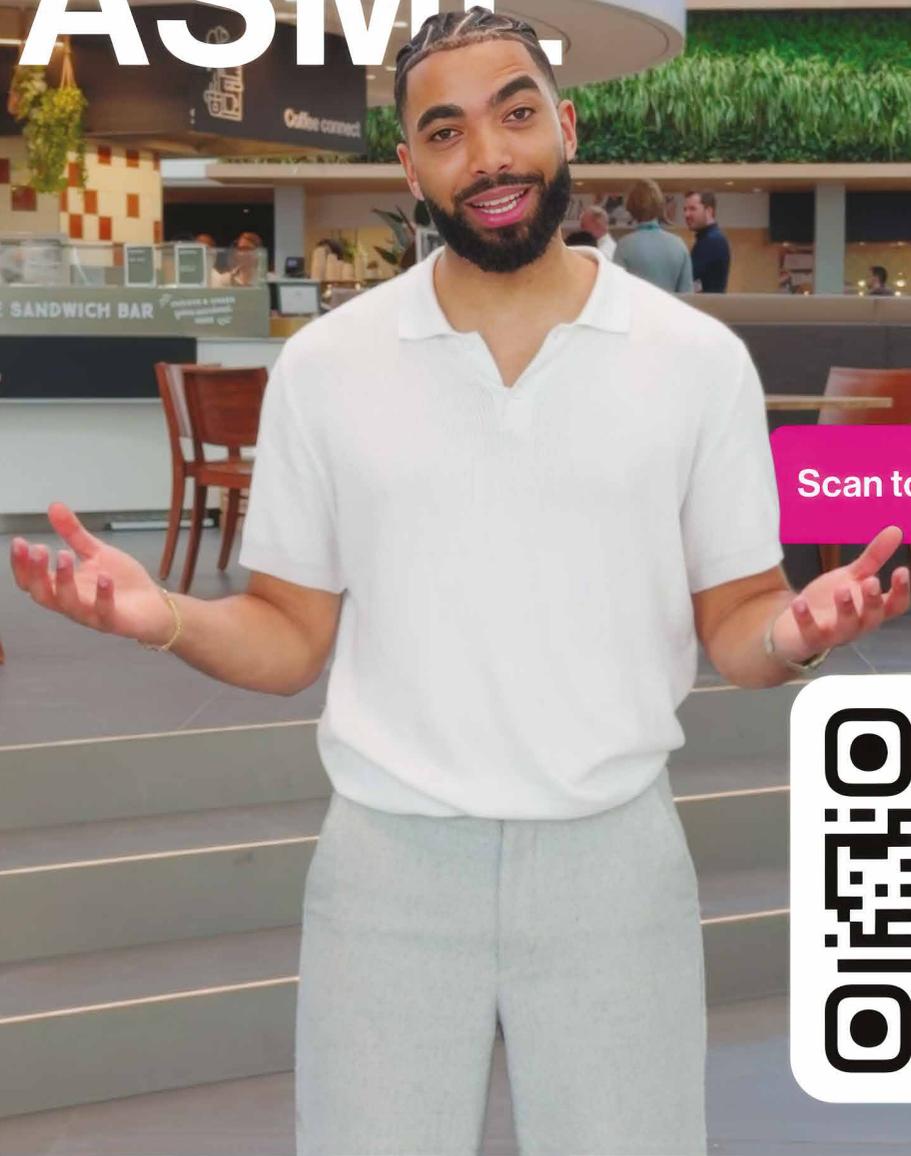
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