

# TAYLOR VISION

*Summer in  
sight!*

April 2022



# About us

Sophie den Boer

## BOARD

Julian Keizer

### Chairman

Frank Schilperoort

### Secretary

Cas van Ruiten

### Treasurer

Emile Heezen

### Internal Affairs

### External Affairs

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## HISTORY

Taylor is the study association related to the department Precision and Microsystems Engineering of Delft University of Technology. The association was founded in 1988 to enhance the study experience of the students. The Taylor Foundation, in its legal form, was subsequently founded in 1992, making it an official organ in the TU Delft. During this time, the department changed its name from "Production Engineering" to the PME you are all familiar with. In contrast to what many people think, Taylor is not named after the famous mathematician known for the Taylor expansion. It is named after the mechanical engineer Frederick Winslow Taylor, who was active in production engineering and industrial efficiency. The logo of Taylor was inspired by the tip of an Atomic Force Microscope, an instrument that requires technology from all the divisions of the department. Taylor aims to enhance the study experience of the students by: trying to improve the relation between the students and the department staff, bringing the students in contact with the industry, providing the department with student feedback about courses and, last but not least, organizing recreational events to de-stress from the hard working life as a PME student.

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# From the board

Dear HTE'ers,

In front of you lies another edition of the Taylor Vision. The past months have been quite eventful. With all the restrictions gradually being lifted, a lot of events were able to take place in person. But of course, if you were not able to attend yourself, you can read all about it in this Vision!

As time passes, also our board becomes more and more comfortable in their tasks, but a steep learning curve is still present! Besides organizing your activities, we are setting up a major Mario Kart League. After a promising start by Cas, Julian is currently leading the scoreboard and I am finally not last anymore. If you believe you are an exquisite karter, come by the office since we are looking for new opponents!

We also really enjoyed the last department drinks, to which such a large number of students showed up,

that halfway through the drinks we had to double the amount of beer. Well done! The gala also has just as many tickets sold already, so that promises to be an even greater party! If you have not bought a ticket yet, go to page 6!

Then all that is left for me to say, is that we look forward to the last quarter and the activities that are in the planning!

On behalf of the board,

Sophie den Boer



# Recent graduates

24/01/2022	Joep Meij	Improving power output of limited stroke automatic watch winding using a nonlinear transmission
25/01/2022	Hanzalah Ahmad	Design and fabrication of a compliant neutrally stable joint with activatable pre-stress to switch between a stiff and neutrally stable state
28/01/2022	Davis Pazars	An interface-enriched finite element method for immersed contact under large deformation kinematics
31/01/2022	Christian Mora Benitez	Influence of automated fiber placement in fused deposition modelling with reinforced thermoplastic materials
16/02/2022	Lucas Norder	LightSail design with neural optimization of topology
25/02/2022	Thijs Bieling	Studies on the evaporation induced acoustic emissions from 3-D printed bio-inspired microfluidic vessels
03/03/2022	Demi van Megen	Predicting the elastic properties of lattice materials, a geometrically nonlinear approach
30/03/2022	Roshan Prasad	Probing the mechanics of crumpled graphene membranes

## Congratulations!



# Taylor Lustrum Gala

29<sup>th</sup> of April



## High-Tech Meets Low-Tech

You are invited to a wonderful evening where high-tech students, staff and dates can experience a dinner and dance in the medieval atmosphere of Stadts Herberg de Mol (est. 1563).



29th of April 18h-1h  
Individual dinner + party ticket is 39,50 euros  
Tickets link in the QR!



# Upcoming activities

- |                        |                        |   |
|------------------------|------------------------|---|
| <b>19/04  </b>         | Lunch lecture Metrohm  |    |
| <b>22/04  </b>         | Huisman cycling event  |    |
| <b>25/04  </b>         | Company visit VDL      |    |
| <b>29/04  </b>         | Taylor Lustrum Gala    |    |
| <b>12/05  </b>         | Network event Nexperia |   |
| <b>19/05  </b>         | Connect event          |  |
| <b>24/05  </b>         | Company visit Hittech  |  |
| <b>16/07 - 27/07  </b> | Taylor Trip            |  |

# Get to know the

This summer we're going on the Taylor trip to Northern Italy with an amazing group of students. To make sure the trip will be another great success the Taylor Trip Committee (TTC) is run by an enthusiastic group of HTE students. Get to know the TTC!

## Luca

I am Luca Lagemann, 25 years old and grew up in Emsdetten, Germany (~45 minutes from Enschede). I got my Bachelor's Degree in Mechanical Engineering and worked for two years as a Design Engineer in the aerospace industry. Now I'm living in Delft and in my free time I like to meet friends, do sports, travel, grab a drink. More specific interests include Handball, Ski/Snowboard, boating, scuba diving, pizza, beer, coffee, card/board games.

For the Taylor Trip Committee, I took on the role of secretary. Also, I will be organizing the accommodation and activities. I am super excited about this trip and looking forward to an amazing time and great experience.

## Maurits

Hi, my name is Maurits. I started the HTE master's last September after having finished my bachelor's. When I'm not studying I love to be on my racing bike enjoying the sun. Therefore, I am going to do my very best to have Bianchi let us come over and give us bikes. When it's raining outside or when my legs are tired I also enjoy working out in the gym. In the evenings I like to recover by drinking beers with friends or reading a book. I'm super looking forward to going to Italy with all of you guys!

## Sampuran

My name is Sampuran, but I go by a host of nicknames based on people's abilities to enunciate. I'm from India where I finished my Bachelors in Engineering in 2017. I worked for a few years in the Automobile industry and started with my High-Tech Masters at TU Delft in September 2021.

I love cars, sports and reading. My youth revolved around various forms of motorsports and car/bike based projects. I love playing squash (which I'm quite good at) and football (which I'm not). Besides these, I dabble in badminton, cricket, tennis and have recently taken up road cycling.

Post-college, I aspire to start something of my own within the mechanical industry, albeit after working for a few years in this space. Although extremely introverted at first, I've made an active effort to reinvent myself and love meeting new people and learning about other cultures.

# Taylor Trip Committee

## Dan

Let me introduce myself, my name is Dan Hagemann, I'm from the Netherlands and the trip to Northern Italy will be one to remember!

Let me start with something about myself. For as long as I can remember I am fascinated by everything that is mechanical engineering. At an early age, I started repairing household appliances, making fun things like potato guns and continuously improving my workshop. While exploring this interest I have become especially amazed by the very small and extremely precise field of mechanical engineering, as I find it very impressive that very low tolerances are made possible in extreme environments. This interest made me pursue the MNE and Optics focuses. MEMS, Optics, complaint mechanisms, they are all so damn cool!

Next to studying I enjoy lots of hobbies in my spare time! Making craft beers and wine, gardening to make ingredients for the brewing and I have a beehive. To be honest this isn't even all my hobbies but I will leave it at that.

I function as chairman of the Taylor Trip committee and my role is to ensure the smooth running of the organization. We have a very enthusiastic, creative and above all fun team that will guarantee an extremely fun trip. I'm looking forward to meeting the whole group during our first activity on the 3rd of May!

The TTC



# Taylor Port

## Where does it come from?

The trademark token of appreciation of study association Taylor has always been a bottle of Taylor's port. The reason for this needs no explanation, but we thought it would be interesting to share some things about the history of Port in general and Taylor's port specifically.

### What is Port?

Port wine (or simply port) is a Portuguese wine produced in the Douro Valley of northern Portugal. It is typically a sweet red wine, often served with dessert, although it also comes in dry, semi-dry, and white varieties. The wine-producing Douro region is the third oldest protected wine region in the world. Portuguese winemakers add a grape-based spirit to their wine mid-fermentation, hence the name 'fortified' wine. Creating something sweeter and boozier than typical wine. Next, they age their port-in-progress in barrels (and, in some cases, in the bottle) to varying degrees to obtain the desired color, sweetness, and flavor profiles.

### History of Port

Port became very popular in England after the Methuen Treaty of 1703 when merchants were permitted to import it at a low duty, while the war with France deprived English wine drinkers of French wine. British importers could be credited for recognising that a smooth, already fortified wine that would appeal to English palates would survive the trip to London. The continued British involvement in the port trade can be seen in the names of many port shippers and brands: Broadbent, Cockburn, Croft, Dow, Gould Campbell, and of course Taylor.

### Taylor's Port

Taylor, Fladgate & Yeatman (often simply Taylor Fladgate and trading under the name Taylor's) is one of the largest port wine houses. Founded in 1692 in Vila Nova de Gaia, Portugal. For many, Taylor Fladgate is the archetypal Port house, and its wines are the quintessential Ports. Established over three centuries ago in 1692, Taylor Fladgate is one of the oldest of the founding Port houses. It is dedicated entirely to the production of Port wine and in particular to its finest styles.

by Frank Schilperoort



The Taylor's port wine house

# Study playlists

To help you through some of the longer study sessions we wanted to provide you with some nice study music suggestions!

A well known Lofi hip-hop channel with an infinite stream of chill music to study to



Another great and soft instrumental playlist



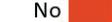
Want some summer vibes while writing code, this is your list!



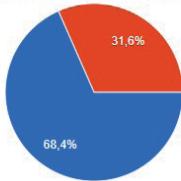
# Statistics

Who does not like statistics? Last Vision our dear Emile questioned you on topics of dating, vegetarianism, covid vaccinations, alcohol consumption and personal bests. See here the results!

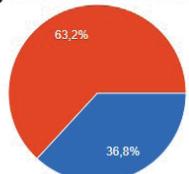
Fact one: 7,6% of all HTE students managed to fill in the statistics form. Thank you!

Yes  No 

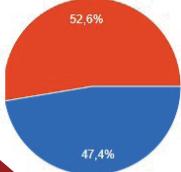
Dating 1/4: I think I am a steal for my girl-/boyfriend or future date



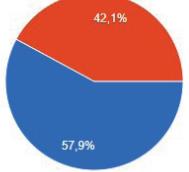
Dating 2/4: Being smart is my most asset



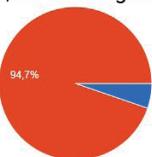
Dating 3/4: Perfume is a must for a date



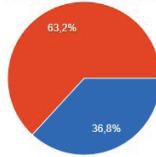
Dating 4/4: Outside > inside



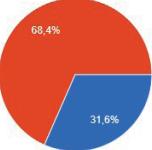
Vegetarianism 1/3: I am a vegetarian



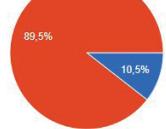
Vegetarianism 2/3: I should be a vegetarian but I just can't



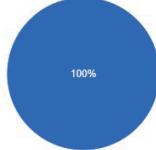
Vegetarianism 3/3: Being vegetarian is healthier



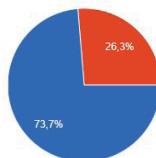
Vaccination 2/3: The vaccine was approved too quickly



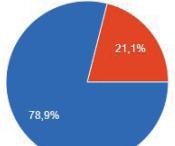
Vaccination 1/3: I am vaccinated against Covid



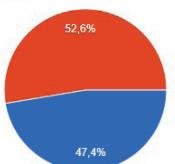
Vaccination 3/3: I have had an awkward conversation about vaccinations at least once



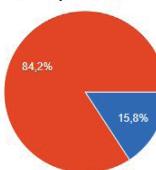
Miscellaneous 1/3: Money can buy happiness



Miscellaneous 3/3: High-Tech Engineering is gonna make me rich



Miscellaneous 2/3: I clap when the pilot just landed





Find out more  
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## Your new job at VDL:

- Management trainee
- Factory engineer
- Mechatronics / Mechanical engineer
- Software engineer
- Sales engineer
- Purchaser

## Do you have as much passion for technology as we do?

### At VDL Groep...

We believe that technology helps improve our lives and society. In the worlds of Mobility, Science, Technology & Health, Infratech, Foodtech and Energy & Sustainability, VDL develops and produces a wide variety of industrial and innovative products and machines, from parts to end products. Whether this is for the semiconductor industry, e-mobility and battery technologies or for improving our production processes.

### We offer you...

A dynamic international working environment with technical challenges in the field of mechanical engineering, electronics, mechatronics and IT. You will work in multidisciplinary teams, with a lot of room for entrepreneurship. What you design, you will see right back on the work floor. An informal, no-nonsense and open atmosphere are characteristics that are part of the VDL Groep's culture.

### We make the difference together...

By thinking. By doing. And by combining craftsmanship and innovation. With more than 100 companies, 15,000 employees in 20 countries that gives you variety and opportunities. We are VDL. We stand for strength through cooperation!



# Tegema

" Interested to start your career at a system integrator engineering in the field of custom precision mechanics and mechatronics where we work on the most innovative cool projects in the semicon, photonics and medical environment?

Feel free to contact me: Cristina.dan@etteplan.com I'm looking forward to meet you!"



# Opinion piece:

## Make Labour day a public holiday

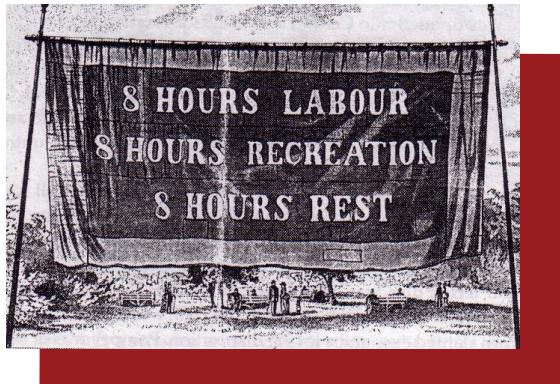
The time of public holidays is at the doorstep. Easter, King's Day, Ascension, and Pentecost are all public holidays in the Netherlands. Most of the public holidays in the Netherlands have grown naturally, in a time when the monarchy and religion were more important in Dutch peoples' lives. Nowadays, the Netherlands is a majority secular country, with more than half of the population stating that they are either agnostic or atheist. The support for the monarchy has also decreased sharply in recent years.

The Netherlands is a country that prides itself on having a representative democracy and on its meritocratic, liberal, and secular society. Isn't there an event that we should celebrate with a public holiday that represents these values and plays a more important role in people's lives?

To answer this question, we can look at our eastern neighbours or across

the Atlantic. In Germany and the United States, Labour Day is one of the most important public holidays of the year. On May the 1st, the streets of Berlin are filled with partying crowds that celebrate the huge progress made by the labour movement. In the United States, Labour Day is celebrated on the first Monday of September. This means that it is the perfect opportunity for a long weekend away, and this is enjoyed nationwide by camping trips and visits to nature.

The Netherlands, Denmark, and South Korea are the only developed countries in the world that do not celebrate Labour Day. I propose that we join the rest of the world and celebrate a day that aligns with modern values. After all, the Labour movement brought us 8-hour workdays, the abolishment of child labour, and more fair wages for women, among others. The impact of the labour movement on modern society cannot be overstated.



By Frank Schilperoort

# PM

# Excursion

On March the 17th, the company PM invited us for an excursion to their facility. PM is a company specialized in high-precision linear bearings and engineered-to-spec motion systems.

At 10:45 we set off to Dedemsvaart. Together with the provided lunch, a presentation was given about PM's main business. PM makes precise (Linear) bearings, which they sell in a combination of custom-made and standard models. We are told about the complex process that is used to manufacture these bearings, from buying the raw materials to the heat treatment and eventual final product.

After this short and informative presentation, we start with, in my opinion, the most interesting part of the day, the company tour. Our large group is split into 3 smaller groups each with different guides. We were taken on a tour to the CNC mills,

grinders, ovens, and the cleanroom. Where we could see what the bearings looked like at each process.

With this, the tour ended and we moved on to the final part of the day, a case study. A Z-stage shows a repeatable history-dependent rotation error, two compression springs are present as gravity compensation. They also gave us the information that the use of tension springs removes this error. Some creative causes were discussed, such as the Coriolis effect and eddy currents of the actuator, but in the end, the team which thought of the rotation or buckling of the spring won a trophy.

With this, we made our way back to the bus and started the long drive back to Delft during rush hour. The company tour was really interesting and introduced me to a company and an important focus of hi-tech that I was not yet familiar with. Although the distance from most other companies (and Delft) probably does not make it the first choice for everyone it is still worth checking out.

By Thomas Peeters



# Prodrive Excursion

On the 24th of February, everybody gathered at the library to travel to the far south of the Netherlands, Eindhoven. The company ProDrive was nice enough to invite us over for a presentation, lunch, and a company tour.

Along with a nice cup of coffee, we first got an interesting presentation about the sales numbers, business model, and the future of Prodrive. This was all done by the very enthusiastic HR manager Ruud de Vries. Having taken in all the statistics, it was time for a small lunch break. Then we got ready for the second presentation by Moos Senden here. A technical presentation followed diving deeper into the design decisions of the Proton Motion Stage, a recently developed product. This presentation showed a lot of similarities with the

course Mechatronic System Design, as strategies like the Sky-Hook principle were used.

Finally, my favourite part of the day had begun, the company tour. In groups of four people, we were allowed to walk around in the fabrication halls and see all of the machines in action. And even more importantly we were allowed to ask questions about everything. Whether you got the response you wanted, depended on whether it was classified or not.

All in all the company tour was really nice!

By Daniel Blommestein



# HEY YOU

*Do* have an idea that  
will enrich your TU Delft study experience?



FAST stands for Funding Ambitious Students in TU Delft, which is exactly what we do! We offer funding in the following categories:



Study & Research



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Events



Ambitious Idea



**FAST**  
TU Delft University Fund

[tudelft.nl/FAST](http://tudelft.nl/FAST)

# Lunch lectures

## PM LUNCH LECTURE

On the 1st of March, PM hosted a lunch lecture for us at 3ME. After a trip from Dedemsvaart, Jan Willem and Johan gave us an informative talk about the family-run company specialized in designing precision linear and rotating bearings and slides.

After a nice clip of the facilities they have at PM, they went into more detail on the problems they are facing with the new highly accurate positioning and motion systems they are developing to customer specification.

It was nice to hear about the company while enjoying a tasty sandwich.



## SIOUX LUNCH LECTURE

On the 9th of February, Freek and Thomas came by 3ME to give a lecture about their day-to-day at Sioux. This lecture came accompanied by a nice piece of free pizza, and a chance to win free beer.

The main body of the lecture consisted of a variety of projects which both had worked on, these projects were mainly focused on high tech design within a broad range of applications. This is also the focus of Sioux; they offer solutions in the high-tech industry for their clients. These clients don't necessarily have to be from the high-tech industry, but due to the big variation in expertise within Sioux they can offer solution solving as a product.

As an example of the type of project Sioux works on, they talked about a project in which they were tasked with creating a device that can automatically perform analysis on prepared slides with organic content on them. This showed the problems which are part of such a project, as well as the iterative solving process which is applied in the company.

*By Michiel den Daas*

# INTERVIEW

## with Thijs Blad

by Emile Heezen

This interview was conducted on a lovely Friday afternoon. Thijs and I sat outside. It's called an interview, but I would rather call it a chat between two pals, discussing something we both like; mechanical engineering and the opportunities it brings forth. Thijs finished his Ph.D. in November 2021 and continued his career by promoting to postdoc. In the interview, I try to discover more about what it's like to do a Ph.D.

### **Thijs, can you give a summary of your student years?**

I started my bachelor mechanical engineering in 2012. I finished the bachelor's in 3 years, then started the master's PME, which I finished in just over 2 years while combining it with the Taylor board.

### **You must be an excellent student then?**

During my bachelor's, I was not. I was never there, I was what you call a "collegerama student". One or two weeks before the exams I would do a collegerama binge-watch session which always worked until I did a minor in medicine in Rotterdam. Presence was mandatory there and I guess that I became a good student from there on.

### **How do you look back on being in the Taylor board?**

It was really cool. It was exceptionally cool. I liked most that as a student, you get to visit large companies, ASML, VDL, Festo, and you

get taken seriously. As the chairman, I would often go together with Niek (external affairs) to companies and talk about the common interests we might have. Sometimes it feels quite bold to ask a company to give a lunch lecture, and then charge them for it too. Fortunately for (most) companies, it is nothing out of the ordinary. If they don't want to, it's their loss.

### **What is the Taylor event you liked most?**

As a separate event, the gala. But what made the most impact was the Taylor trip to Japan. A group of students dressing up fancy to visit companies and attend lunches, and that same group of students breaking down the Japanese karaoke bars...

### **Can you tell a little bit more about why you started a Ph.D. after your master's?**

Davood (back then a Ph.D. candidate), my daily supervisor during my master thesis was doing great work with compliant mechanisms. I was amazed by the amount of knowledge he had about his field. From the professors, I had expected it, but the fact that Davood knew so much already made me realize that the four years you have as a Ph.D. candidate allow you to become the intellectual leader of your field of research, an idea that tickled my fancy. At the start of my thesis I did not know I wanted to, but this way I rolled into it.

## **During your Ph.D., did you ever have the idea that you would not be smart enough?**

Not exactly that, I don't consider myself super smart, but that is also not the requirement for doing a Ph.D. It is more important to be able to consistently work on a problem and don't lose focus. In a way, it is much like a master thesis. There is no clear definition of the goal, there is no recipe to follow. You're being thrown into the deep, and it is more or less up to you to make that recipe. In my experience that was much like my master thesis.

## **What is the real Ph.D. mentality, how do you live through these 4 years?**

When something does not work the way you thought it would (which happens quite often) you must not lose motivation. Of course, 4 years is a long time. But it takes that long for a reason. It gives you time to work around unexpected setbacks. What we do here in Delft, are things that have not been done before, and will have a relatively large chance of failure. The majority of the things we think up here do not work the way we thought. When a theory that took you months to develop and test turns out not to work, you will have to find a way to work around it. In essence, that's the most important thing in terms of mindset. It can be a challenge, and you will have to like that challenge. For me, it came out very well, and managed to turn the technology from my Ph.D. into a start-up.

## **Were you a happier person during your thesis graduation time or your Ph.D.?**

That's hard to say. During my master thesis, I was in the Taylor board, which initiated many social activities. During the Ph.D. that was different. In the first year, there were still former fellow students that took a little longer to finish, with whom I would go to Taylor drinks. Slowly that turned into colleagues who I persuaded to attend these events, which

was also very entertaining. Concluding for this question, my master thesis and Ph.D. were on the same topic with the same supervisors, so I'd like to see it as if I have been graduating for 5 years, and it was just a very happy time.

## **Concluding, is there any advice you would like to give to our students?**

Do not rule out a Ph.D. as an option for you too quickly! If you are enjoying the graduation process, at least consider doing a Ph.D. It would be a shame if you are Ph.D. material without realizing it. Next to that, try to be involved with the PME community as much as possible, because it is such a nice group of people. There are so many events where you can learn a lot, not only in terms of subject matter but also socially. Having a network is extremely important. Your fellow students of today might be working at the companies you want to partner with later. It would be a shame if you miss out on these moments.



# Drinks at the Klooster

A little impres-  
sion of the  
ambience



On the 15th of February, our dear mental Taylor coaches decided to help us students "break the week in half" (on Tuesday) by hosting another generously sponsored drink at cafe Het Klooster. The combination of the cozy atmosphere, combined with an enthusiastic waiter running up and down the stairs like he never skips leg day, made it a joyful evening. The promise of a legendary gala party was announced and promoted by the Old-Taylor board folk. My goodness, what a bunch of good-looking lads with those bow ties. I'm definitely signing up for that party. I'm looking forward to spending some more quality-partying time with my fellow students, until the next one!

– Shy and anonymous HTE'er

# Recipe

## Di San Xian

### Di San Xian (Stir-Fried

Eggplant, Potato, and Pepper) is one of my favourite Chinese dishes to make. It's quick, easy, and delicious. It also uses a small number of ingredients as opposed to many other Chinese dishes which is always a plus for me.

### Ingredients:

All the ingredients can be bought at Dongnanhang (The Asian supermarket in the city center) or any 'amazing oriental'.

The following ingredients are for 4 people:

#### Sauce

1/2 cup water  
2 tablespoons light soy sauce  
1 tablespoon dark soy sauce  
2 tablespoon Shaoxing wine  
1 tablespoon sugar  
1/2 teaspoon salt  
2 teaspoon cornstarch

#### Stir fry

2 large Asian eggplants, chopped into bite-size pieces  
4 teaspoons cornstarch  
1/2 cup peanut oil (or vegetable oil)  
4 small potatoes  
2 bell peppers, chopped into bite-size pieces  
2 green onions, chopped  
3 cloves garlic, minced



### Cooking instructions

Combine the sauce ingredients in a small bowl. Mix well and set aside

Heat a 12" pan (or a wok) with 1/3 cup oil over medium-high heat until hot. Spread the potato pieces in the pan without overlapping. Cook without moving until the bottom turns golden. Flip to cook the other side, until golden. Transfer the potatoes to a big plate.

Sprinkle the eggplant with cornstarch and gently mix by hand, until the eggplant pieces are lightly coated.

Your pan should still have plenty of oil. Place the eggplant in the pan and spread the pieces without overlapping. Cook the eggplant without moving it until the bottom turns golden brown. If the oil in the pan is fully absorbed by the eggplant before cooking through, add a bit more oil to the pan. Turn to medium heat if the pan starts to smoke. Flip the pieces to cook the other side until golden brown. Transfer to a plate with the potatoes.

If your pan still has too much oil, carefully remove some of it with a folded paper towel and leave only about 1 teaspoon of oil in the pan. Add the green onion and garlic and stir a few times until fragrant.

Add the peppers and stir a few times to mix well.

Mix the sauce again to dissolve the cornstarch completely. Pour the sauce into the pan. Stir a few times.

Return the eggplant and potato to the pan. Cook and stir until the sauce has thickened and evenly coated the vegetables. Transfer everything to a plate.

# Want to join Taylor?

Do you have interests in doing a part-time board year? Do you want to be involved with students, staff and companies in high-tech engineering? Do you want to be part of Taylor?!

Then this might be your time!

With the half year point reached, Taylor is slowly looking for a new board. Do you see yourself as one of the five enthusiastic students in the next board of 2022/2023, contact us!

So do you want to organize amazing events, make a lot of friends, get in contact with companies and many more extras (like your own office and free coffee;) hit us up with any questions you might have!



# Want to receive the vision hard copy?

If you are reading this, it's probably while reading the PDF on your mobile/notebook or you're holding the physical, one and only, Taylor Vision. Because the Taylor board is thinking about the future and wants to keep sustainability in mind, we will give you the option to choose how you want to receive the Taylor Vision. It could either be a soft copy in your email or a hard copy landing on your doormat each quarter. By scanning the following QR code you can set your preferences on how you want to receive the Taylor Vision.



# puzzle

For this edition, we introduce you to a very interesting type of puzzle. We are looking for autobiographical or self-descriptive numbers.

Rules are easy but we suggest you try it on the number ten making the rules as follows:

1. The number must have ten digits.
2. The digit in the first position indicates how many times zero occurs.
3. For every subsequent position, a digit at position 'n' indicates how many times digit 'n' occurs.
4. For the number 10 there is only one correct answer

An example for the number 4 is 2020 having two zeros and two twos.

Try and find more numbers like this.

NOTE There are no self-descriptive numbers in bases 1, 2, 3 or 6.

Good luck!

Send an email to [taylor-3me@tudelft.nl](mailto:taylor-3me@tudelft.nl) with your solution and you might be the lucky winner!

4	6	7	1	8	9	3	2	5	
1	5	9	3	2	7	6	4	8	
2	3	8	4	5	6	9	7	1	
6	7	4	8	9	5	1	3	2	
3	9	2	6	7	1	5	8	4	
5	8	1	2	3	4	7	9	6	
9	1	6	7	4	8	2	5	3	
8	2	5	9	1	3	4	6	7	
7	4	3	5	6	2	8	1	9	

6	7	2	8	3	1	4	5	9	
1	3	5	4	7	9	2	6	8	
9	4	8	5	2	6	3	7	1	
5	1	3	6	8	7	9	2	4	
2	6	4	1	9	5	7	8	3	
8	9	7	3	4	2	5	1	6	
5	7	4	6	1	8	2	9	3	
6	8	2	9	7	3	5	1	4	
3	9	1	4	2	5	6	7	8	
5	3	1	4	8	9	7	2	6	
2	4	6	5	7	1	9	3	8	
7	8	9	2	3	6	1	4	5	
4	2	5	8	1	3	6	9	7	
8	6	3	7	9	2	4	5	1	
9	1	7	6	4	5	2	8	3	
3	7	4	1	2	8	5	6	9	
6	9	2	3	5	7	8	1	4	
1	5	8	9	6	4	3	7	2	

The solution  
of the last  
puzzle!



# Taylor

