

# TAYLOR VISION

*Embrace the  
spring!*

January 2022



# about us

## BOARD

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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,

We hope that you all had an amazing holiday with a lot of 'oliebollen' and fireworks to enter the new year!

The academic year is already halfway finished, time flies. However, don't worry Taylor has still enough activities on the planning. Luckily it seems like the current regulations are starting to ease, so we can start planning activities in person again!

We definitely look forward to our next get-together on the 15th of February. After weeks of intense studying and lock-downing, we will have some well-deserved parties! Besides that, there are a number of other events also scheduled (find them on page 8), for which we are really excited.

It is also really nice to see that people are coming back to the university again, and stopping by for the renowned Taylor coffee. If you have any questions or just want to hop by

for some coffee or tea, you are very welcome! Especially on the Tuesday afternoon it is a full house in our cozy office!

So far we have had an amazing time with the board, but most importantly with you! We look forward to seeing you again after the exams, but first: enjoy this new Vision edition!

On behalf of the Taylor Board,

Sophie den Boer



# recent graduates

08/11/2021	Jelle Haasnoot	Design and validation of steer, roll, yaw and sway motion of a kinematics-based bicycle simulator
08/11/2021	Cassey Knipscheer	Actuation surface on a curved crease origami metamaterial
09/11/2021	Navin Shankar Saravana Jothi	Active mechanical metamaterial unit cell with integrated piezoelectric stack actuator
11/11/2021	Brian Roos	Fabrication of two-photon polymerized 2.5D and 3D microstructures to optimize primary microglia cell culture
17/11/2021	Robin Niezen	Method for flat-foldable curved Miura-ori tessellations
18/11/2021	Marsha Nieuwland	Energy harvesting for pacemakers: a stiffness compensated bistable energy harvester tested on a heartbeat
19/11/2021	Daan van der Lans	Neutrally stable shells with embedded actuation
22/11/2021	Aris van Houten	RCM mechanism based on curved flexures
26/11/2021	Bram Cleijpool	Experimental quantification of gripper limits determined by product detachment in a practical set-up: applied on high-speed case packing of packaged food
29/11/2021	Zhiyuan Xu	A generalized finite element method with spread and discrete enrichments for capturing high thermal gradients in composites
30/11/2021	Daan Treurniet	Machining cost estimation in topology optimization for 2.5-axis CNC milling

# recent graduates

08/12/2021	<b>Rajiv Kapildewsing</b>	Manipulating the stiffness of post-buckled beams using topology optimization
09/12/2021	<b>Martijn Otto</b>	The design and construction of an experimental setup for photonic integrated circuit alignment sensors
14/12/2021	<b>Andreu Moliner Brotons</b>	Multibody model-based analysis of a 2DOF translational mechanism: specifications breakdown from system to sub-system level
16/12/2021	<b>Marten Wijnja</b>	Final design, realization and characterization of a 150mm diameter collimator with a $\leq \lambda/4$ wavefront error at 700 nm
20/12/2021	<b>Stef Rodenhuis</b>	Probing nanomotion and comparing antibiotic efficacy of a single E.coli bacterium on silicon and graphene

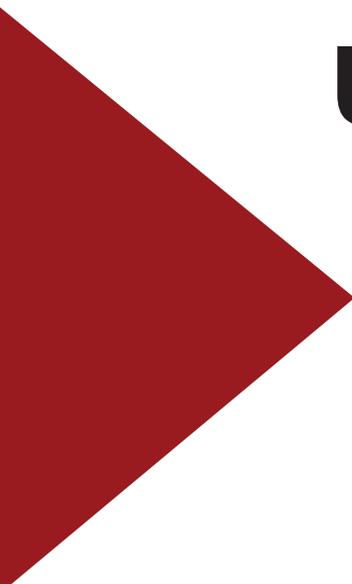
# Congratulations!

# Did you know that..

In our studies we learn a lot about very interesting topics that fascinate us, but this does not always fascinate our family members and friends as well. Going to a dinner and telling people about the amazing world of High Tech Engineering will probably not go down well. For this reason, we will share some nice 'wist-je-datjes' (did-you-knows) with you for when you want to start the conversation at a dull party.

- ▶ Did you know some animals can delay their pregnancy for months. The spotted skunk, for example. But also otters and kangaroos. They are fertilized, but the embryo has not yet implanted itself in the uterus.
- ▶ Did you know lighters are invented before matches.
- ▶ Did you know that during World War II, the Oscars were made of painted plaster. Metal was scarce and necessary for the war industry.
- ▶ Did you know lemons contain more sugar than strawberries
- ▶ Did you know goldfish can see both infrared and ultraviolet light
- ▶ Did you know the only continent with no active volcanoes is Australia
- ▶ Did you know the longest street in the world is Yonge street in Toronto Canada measuring 1,896 km (1,178 miles)
- ▶ Did you know a 1/4 of your bones are in your feet





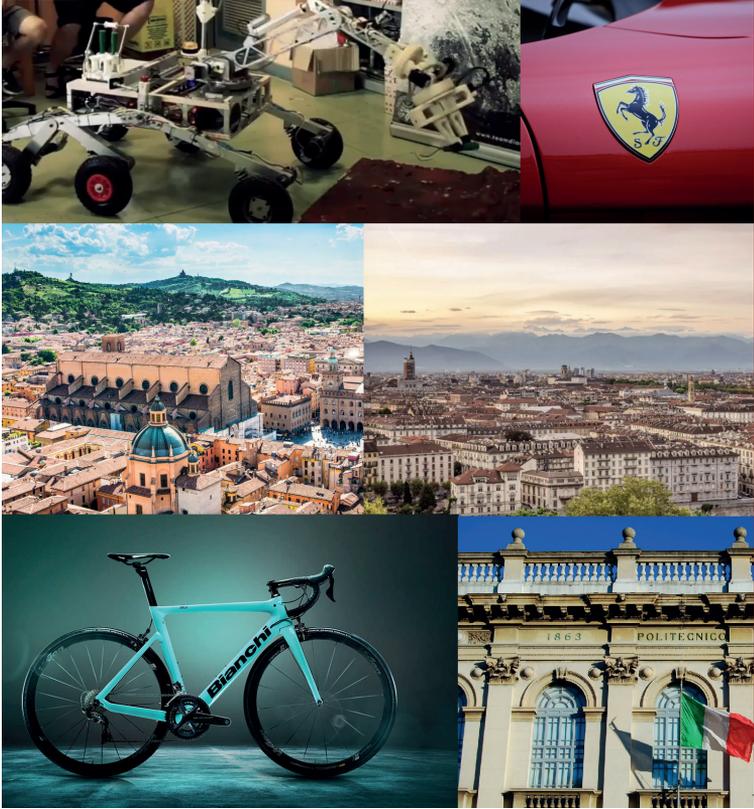
# upcoming activities

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09/02/2022	Sioux Lunch Lecture
15/02/2022	Third Quarter Starter
03/03/2022	CONNECT Network Event
01/03/2022	PM Lunch Lecture
22/04/2022	Huisman Cycling Event
29/04/2022	Taylor Lustrum Gala
16/07/2022 - 27/07/2022	Taylor Trip 2022

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An impression of  
the trip



# Taylor trip

Earlier this year it was revealed that this year's Taylor trip is going to Northern Italy! With a lot of submissions from first and second year students we are starting to further shape this year's trip. If any of you have friends or relatives working in the area who might want to help us out by offering a tour through the company, we would love to hear from you. Here are some more highlights on what can be expected from this year's trip. If you sadly have to miss the trip this year you are welcome to join again next year!

With a lot of beautiful culture, food and places, Italy is a perfect holiday location. However, this is not your typical holiday. We plan to visit some of Italy's most impressive companies as well. With a lot of niche technology, older well known companies, and technical universities, there are many possibilities to also learn something about the industry during the trip.

# Lustrum Gala

You might have missed it, but this year is the Taylor lustrum! Because of this we organize bigger and more activities with the pinnacle of them being the lustrum gala! More details will come later, but here is an impression of how great the lustrum gala was five years ago, so stay tuned.

*Cas van Ruiten (Taylor Board)*

An impression of the last Lustrum



# Huisman cycling event

Huisman is an engineering firm where they manufacture and service heavy construction equipment for the world's leading companies in the renewable energy, oil and gas, civil, naval and entertainment markets. Huisman has long been a partner of Taylor and we are pleased to announce that on the 22nd of April, Taylor and Huisman equipment will collectively organize a cycling trip.

Together with the HTE students, we will cycle to the Huisman office in Schiedam. To ensure that we will travel in style, Huisman will kindly sponsor tailor-made cycling kits. The cycling kits will feature the Huisman and Taylor logo to celebrate the event.

After the trip, we will wind down with drinks and bites at Huisman in Schiedam. Here we can chat to Huisman employees to see what they do and what working at Huisman is like.

An impression of what the Taylor-Huisman cycling kit will look like.



# Study & Well-being information

Version August 2021

Your **Academic Counsellor** is the first point of contact for questions and concerns related to your studies or personal issues.

## Essential study skills

Online toolkit to help with many common study roadblocks.

### BOOST

Offers advice on your studies and personal issues during walk-in hours.



**Personal development**

### Career & Counselling Services

Workshops and training in the fields of personal support, study choice and career.

## Mini Courses

Tips on (decision) stress, procrastination, teamwork & career.

### Well-being & study

Overview of services, activities and tools to support your well-being.

## Family doctor

Helps with physical and/or psychological issues and illness.

### Student psychologists

Workshops and short-term individual guidance for issues hindering your study.

Walk-in hours available.

### Motiv life coaching

Receive coaching and personal support from a life coach.



**Well-being**

## Confidential adviser

Helps in cases of unacceptable behaviour from students or employees.

### E-Health tool 'Gezondeboel'

Anonymous, free and simple programmes to improve your mental well-being.

### Health insurance information

Provides insurance advice for foreign students in The Netherlands.

## Student counsellors

Support with complex issues concerning schemes, regulations and/or facilities.



**Special needs**

## Horizon

Helpdesk for studying with a disability or additional support requirement.

### 'Student Onbeperk'

Student platform for students with a disability.

## Study associations

Every faculty has its own study association(s) that represents students and organises activities related to your field of study

### Student associations

Find others for social and fun associations in career, country or regional, culture, fraternity, international, religious, and sports.

X

## Uni-Life App

Overview of all events from student associations, organisations, clubs, and initiatives at TU Delft.

Develop in non-academic areas such as sports and games, arts and crafts, and more



**Socialising**

  
**TU Delft**

In case of an emergency call 112

Emergency number TU Delft Campus: +31 15 27 88888

If there is a risk of suicide, chat with 113, or call 0800-0113

[www.tudelft.nl/en/studenthelp](http://www.tudelft.nl/en/studenthelp)



# Student well-being

*It's not easy being a student during the lockdown period. Therefore we wanted to attend everyone on the great help the TU offers if you cope with some struggles yourself. For more information you can always email Taylor, especially on the socialising ;)*

# Statistics



*Who does not like statistics? Help us make them! It takes just 2 minutes.*

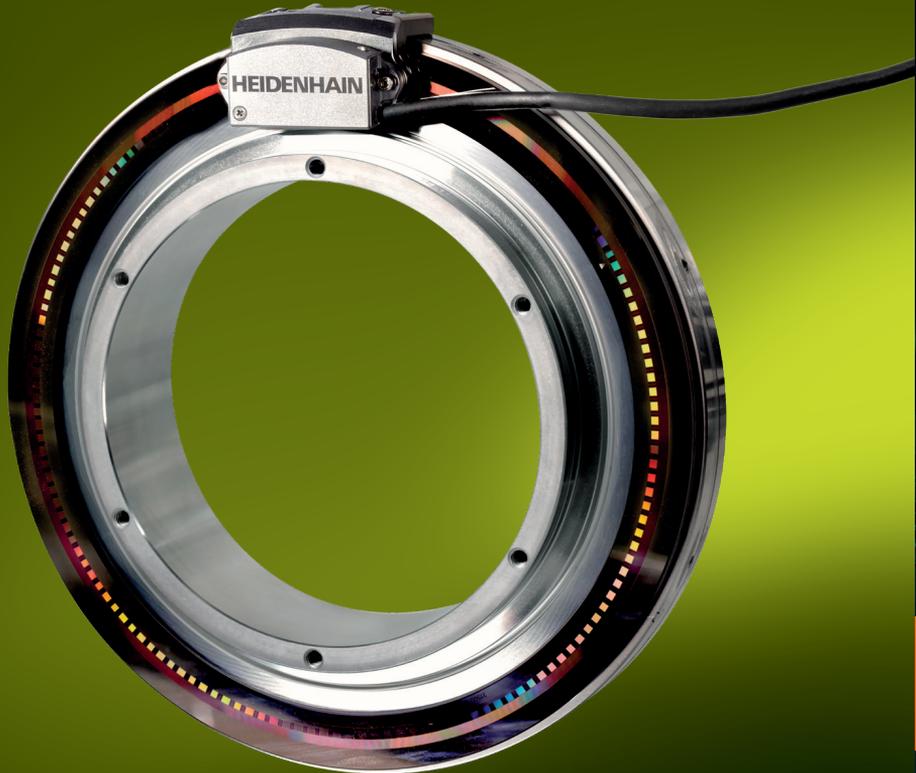
*Fill out the google form and check out the next Vision for results.*

*Interesting topics will be treated like:*

*Dating, vegetarianism, covid vaccinations, alcohol consumption and personal bests!*



# HEIDENHAIN



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and reliability



We are very well acquainted with the complex design of high-precision rotary axes and their special characteristics, which is why we have developed the MRP angle encoder modules. They combine high-resolution measurement technology with a highly stable bearing that isn't fazed by off-axis tilting loads. There are no critical mounting processes or complicated adjustments: you simply take advantage of a highly integrated system.

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We are looking for talent in:

- Software
- Mathware
- Mechatronics
- Electronics
- Automotive
- Mechanics

# Column:

## Why do Dutch people roll dice as a Sinterklaas tradition?

It might have happened to you that in the weeks before Christmas you have played the 'dobbelspel'. A game played by a group of friends or family incapable of writing poems vicious enough to amuse all but the recipient, and thus end up playing an all inviting game of rolling dice for €5 gifts.

Rules are simple, but vary from stay-at-home mom magazine to stay-at-home mom magazine. According to ladylemonade.nl there are 2 rounds. In round 1 throwing 1 means a gift must be gathered from the stack (but not unpacked!)..., throwing 2 means all gifts shift to the left, etc. Libelle.nl claim that their rules are the official rules, how exciting is that?! Who even determines which version of a made up game are official? All I know is there is no pending request at the International Organization of Standardization.

The agreement was that presents must cost around €5, so we know the stakes are not high. Somehow no one is aware of this, because all gifts are wrapped, magically making them extremely valuable. The imaginary happiness disappears in the second round, when one by one gift gets unwrapped when you throw 4 or your neighbor 6 (just because Libelle says so). You watch in agony while a cocking pan shaped fast recipe booklet, a scented candle and a floating key chain change owner a few times. Soon the alarm will end it.

If you enjoyed the night, its probably because something other than the game also took place, and lets face it. A €5 presents that 'should make everybody happy' will in fact make no one happy. All of you got played by the people of Flying Tiger. By agreeing to play the dice game everybody just admitted they can't be bothered to make the effort or pay the interest in someone's life to buy a decent gift and write a well thought out poem.

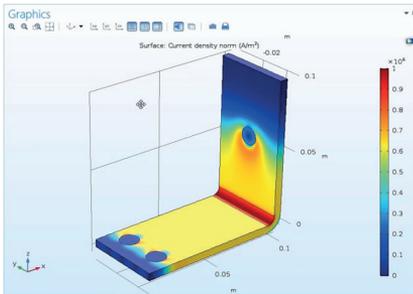
Emile Heezen



# recent activities

## COMSOL COURSE

During the afternoon of the 6th of December, 40 students followed an introduction to COMSOL. With the help of this software they were able to solve a multiphysics problem in which a component experienced Joule heating due to an electric current running through the material.



## CHRISTMAS PUBQUIZ

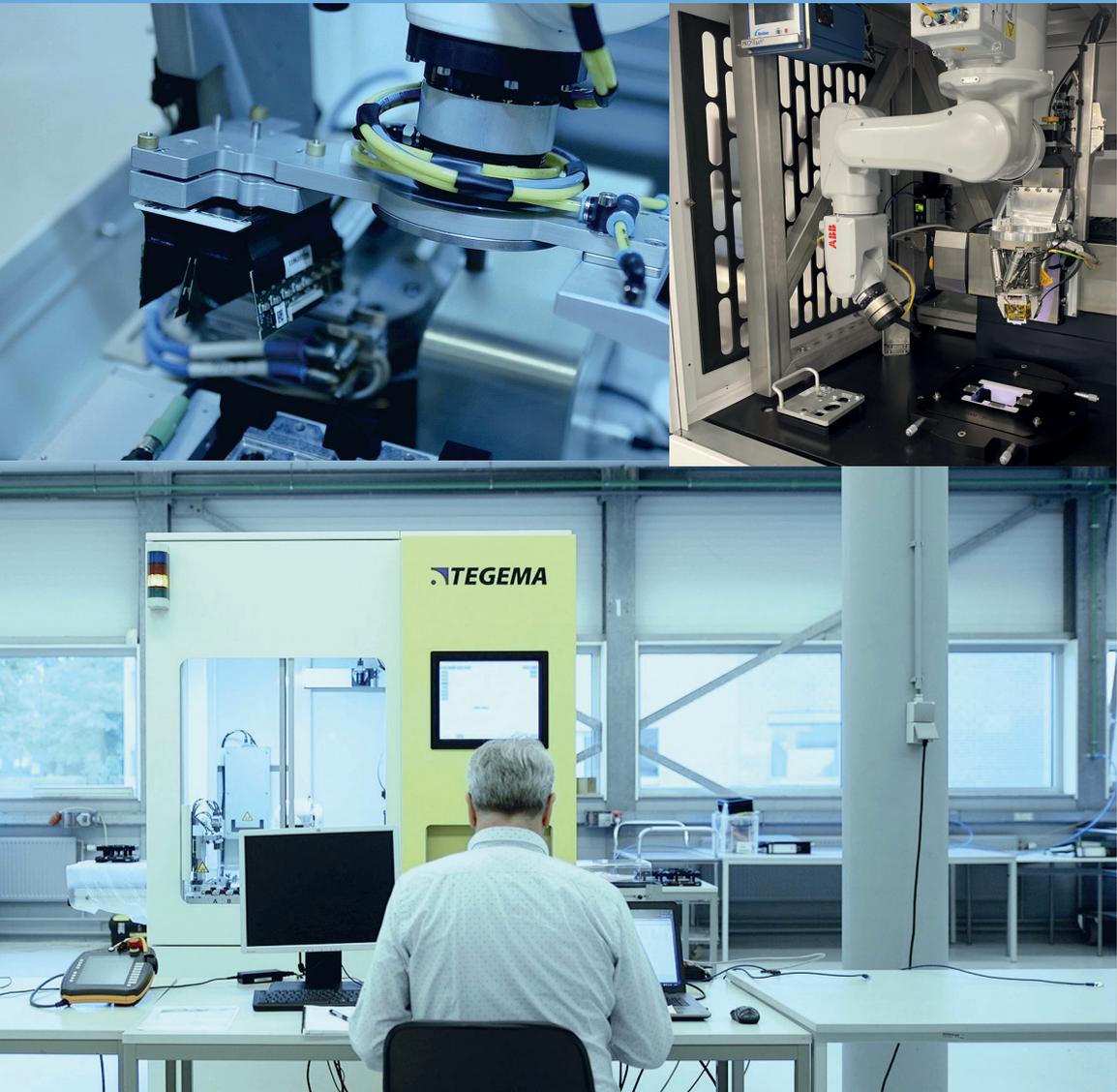
There is no Christmas without a Taylor Christmas activity! This year, ten groups joined for the Christmas pubquiz. Even though it was online, it was nonetheless a success. With rounds on geography, riddles, useless knowledge, the board, and art, there were more than enough questions for an evening full of quizzing.



# 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](mailto:Cristina.dan@etteplan.com) I'm looking forward to meet you! ”



## LUNCH LECTURE HITTECH

On the 18th of November, Roy Bijster and Dylan Sikkelbein from the hittech Group hosted a lunch lecture for the PME department at 3ME. Roy Bijster is a systems engineer at Hittech Multin, he gave some insight into the general workings of the Hittech Group. Dylan Sikkelbein then provided some examples of the projects that different companies in the group are working on.

We learned that the Hittech Group is a supplier of high-tech products, consisting of a set of sub-companies. These companies develop for a broad range of the mechanical field, supplying to sectors such as the medical sector, but also to the semiconductor industry. Concerning their product, the focus is mainly on

high performance parts, with tight tolerances and requirements. As such, parts are made from exotic metals and alloys. These kinds of metals can be difficult to work with, so partners in the group research new fabrication methods in order to optimise manufacturing and assembly. This is also the part which applies to students looking for a graduation project, as Hittech is interested in providing students with the possibility of an insight into these studies.

*Michiel den Daas  
(HTE-student 21/22)*

Lunchlecture  
VDL

## LUNCH LECTURE VDL

On the 30th of november it was our honor to receive two former High-Tech students, now working for VDL ETG. Niek van Hoek and Maurits van den Hurk, occupying completely different functions, which gave us a diverse overview of the possibilities of working at VDL, the company that does a lot more than making busses.

Niek told us about the project management traineeship he has been doing and the places it has taken him to. It was interesting to hear that he was given plenty of responsibility from the start as he was sent to Asia.

Maurits gave a pleasingly relatable presentation about the project he has worked on for two years; a vibration

isolator, which VDL makes for a customer in the chip manufacturing industry. Concepts familiar to us students, mostly from the course mechatronic system design. Passive damping, active damping, stiffnesses, nicely placed outside of the exam question format.

*Emile Heezen*



# Precision fair

## PRECISION FAIR EXCURSION

On the 10th of November we went to the 20th edition of the Precision fair! With a bus from DSPE we headed to Brabant for over 300 companies specialized in precision technology. DSPE is an independent professional branch organization for all precision engineers in the Netherlands. When entering the Brabanthallen we received a lunch arranged by one of the most established high-tech companies in the Netherlands, VDL. We were ready for a packed day full of lectures, pitches, networking drinks and many more activities. We got in touch with all sorts of different high-tech companies. It was really good to see all the HTE students enjoying the different stands and technologies that were on display.



# INTERVIEW

## with Davood Farhadi

by Frank Schilperpoort

### **Let's start with a very general question, could you tell us a bit about yourself?**

I am originally from the northern part of Iran, from a city called Sari, surrounded by the Caspian Sea and the Alborz mountains. The weather there is somewhat similar to here, so the random rain is not too strange for me. I did both bachelor and master in mechanical engineering at Nooshirvani University of Technology (Babol, Iran). In June 2014, I came to the Netherlands to pursue a Ph.D. degree in mechanical engineering.

I enjoy different activities in my spare time, including playing volleyball (both indoor and beach volleyball during summer), hiking in nature, paper folding, and visiting different cafes with my wife. Our favorite one is visiting the Bookstore cafe in Den Haag, reading a random book from their bookshelves, and enjoying our cups of coffee.

### **How was your time studying?**

For most eastern countries, since the universities are not that rich, the focus of courses in mechanical engineering has been more on the theory and mathematics rather than the applied side. There were only a few professors with both theory and applied attitudes, those who experienced studying abroad. In particular, we had a professor in kinematics and robotics during my undergraduate study, who inspired me to pursue mechanisms science. He was the kind of teacher who did not use slides or extensive notes in his lecture. He came to the class with only a schedule, and then he just drove equations on the board and explained the practical implications of a particular theory in kinematics.

### **How come you decided to do your PhD in Delft?**

After my undergraduate in 2011, I was sure that I wanted to do a Ph.D. abroad focusing on kinematics. I was advised that the best way to go about this is by finding a complex enough master project and practicing writing scientific articles. At that time, I got in touch with Nima Tolou for a master project on compliant mechanisms through a mutual supervisor in Iran. Back then, Nima was doing his Ph.D. under Just Herder's supervision. I started collaborating with them remotely on designing a compliant transmission mechanism. After finishing my master's project, I joined their team on the TAG Heuer project (Compliant wristwatch) as a Ph.D. candidate.

### **After your PhD you worked at ASML for a couple years before coming back to Academia. How was this experience?**

I primarily had an academic career path in mind. After finishing my Ph.D., I decided to apply for a personal grant to continue my research at Harvard. While waiting for the result, I decided to work at ASML for a few months. But, due to visa issues and the Covid situation, I postponed the plan and stayed at ASML for two years instead. Nevertheless, I enjoyed my experience at ASML a lot. I was involved in developing the wafer positioning stage (for the new EUV system EXE5000). In addition, I led a team of about 20 engineers whose responsibilities were developing design rules for elastic mechanisms subjected to fatigue load. I liked the group dynamic and work culture at ASML, highly collaborative and respectful attitude. For instance, the wafer stage project team involved over 100 engineers, leaders, and system architects. Throughout the project, you work with several people, making it quite rich in the learning experience.

### **How come you decided to do your PhD in Delft?**

Since Feb 2021, with the support from PME, I decided to restart my academic career. In addition, I started my research fellowship with Harvard remotely in October 2021, which I am hoping to continue that in person by the summer of this year.

**As I understand, you lead and started the Machine Matter lab. How is it to lead such a lab?**

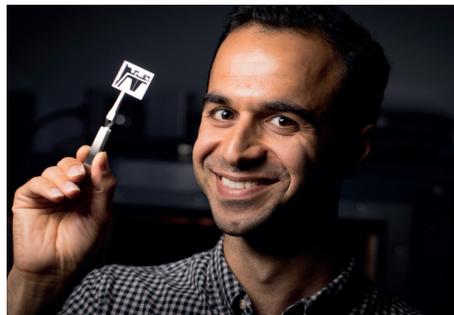
Of course, it is fun to set up a research framework in which I can guide and collaborate with Ph.D. candidates, master students, and industrial partners who share similar interests. The lab's primary focus is on developing flexible mechanisms and architected materials that tackle the physical limitations of mechanical and robotic systems. In general, We are active in three research themes: the synthesis of architected materials, energy management matter, and intelligence matter. In synthesizing architected materials, we focus on developing materials with targeted mechanical properties. For instance, recently, we set up a project in collaboration with ASML. We plan to develop 3D large deflection elastic beams with high support stiffness using the synthesis of origami-based flexible metamaterials. In contrast, in the intelligence matter theme, we aim to include decision-making properties in the architected materials (you could call it adaptability or awareness). This could be a metamaterial with multiple values assigned to a specific property (e.g., Poisson ratio, shape, and stiffness). Imagine, the desired value for a structure's stiffness would be effective depending on the specific situation from the environment or an external stimulus.

**It is the start of the new year. This is a time to look back and reflect, but also a time to look forward. What do you hope to achieve within the coming five years?**

For the research, I want to make sure that the lab is running well and that PhDs and Master's students are working on the aforementioned topics so that we are pushing the boundaries

forward. I also hope to have made a couple of proof of concepts for some of the ideas mentioned earlier.

In addition, I like teaching, and this year I had a fantastic experience with the compliant mechanisms course. My ambition in the future is to make online courses both on kinematics and compliant mechanisms that are accessible to the entire world, make the knowledge more accessible. This way, we can also show what we do here at the department. I would also like to put together an entire course at the TU Delft that focuses purely on kinematics which covers almost everything that is now covered in separate courses. I feel that at the TU Delft, kinematics are covered a bit randomly. By combining these scattered kinematics courses, I hope to make it clearer for the students. And then, later on, I would like to put together one application course that includes compliant mechanisms, origami-inspired mechanisms, and instability-based mechanisms.



**To conclude, do you have any advice for the High Tech Engineering students?**

I recommend that the students practice being positively critical in the scientific context. I often see that many students think that being critical is not in them yet, or they might say that it is not their personality. Nevertheless, critical attitudes in science can be practiced, and nobody has that when they are born. If you are doing something, ask why you are doing it. In addition, be open to receiving feedback, but critically evaluate them to find the most relevant one to yourself.

# MEME PAGE

A new segment in the vision to enjoy some bad mechanical engineering humor is the meme page. **Feel free to send the board your own submissions and you might be featured in the next vision!**

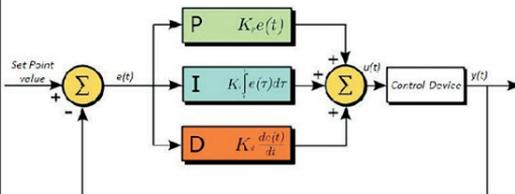


Shout out to Menno for this Meme!

## The gains they worry about



## The gains I worry about



'Melanzane is the ultimate delicious, but still easy-to-make dish!'

# recipe

Melanzane by Sophie



---

## Ingredients:

- 2 eggplants
- 700 g of tomato paste
- 1 white onion
- fresh basil
- 250 g of mozzarella
- 70 g of parmesan cheese
- olive oil
- sunflower oil
- salt and pepper

Melanzane is the ultimate delicious but still easy to make dish! It's perfect for long stay-at-home days. Just put it in the oven and enjoy!

Melanzane is basically fried eggplant baked in a dish with tomato sauce, basil, parmesan and mozzarella cheese. This makes it the bit more healthy version of a lasagna.

For this recipe just follow these steps: 1. Make thin slices of the eggplant and salt them, this prevents a really watery melanzane. Set them aside for an hour

2. Chop the onion and sauté in olive oil, before adding the tomato paste and some basil. Let it simmer for 15 min.

3. Then rinse the salt of the eggplants, pat them dry and fry them in some sunflower oil for a few seconds.

4. Preheat the oven to 180 degrees. Fill an oven dish with first a layer of tomato sauce, then a layer of eggplant, finally covering it with parmesan cheese and mozzarella. Continue stacking in this order until the dish is full. For the last layer, end with tomato sauce and a covering of cheese.

5. Cover the dish with aluminum foil and bake for 20 minutes. Subsequently, bake for another 20 minutes without the foil to get the golden brown topside.

Enjoy!

# 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.



At first glance Samurai Sudoku appears tricky, 5 classic Sudoku grids, 4 overlapping corners, 369 squares in total taunting your Sudoku skills. It is true Samurai Sudoku does take longer to solve, but the rules are the same as classic Sudoku. The only differences are the four overlaps to consider. If you have never tried Samurai Sudoku or are completely new to classic Sudoku here are the rules to get you on the path to a solution.

Classic Sudoku Rules 1. Each classic 9x9 Sudoku grid consists of 9 rows, 9 columns, and 9 3x3 blocks. Every Row, Column, and Block must contain the numbers 1-9, but every number only once. Every 9x9 grid has only one solution 2. Never guess.

Good luck!

# puzzle

by Cas

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

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



# Taylor

