

TAYLOR VISION

*it's all about the
journey*

November 2021



about us

Jaap Resink
(new: Sophie den Boer)

Jan van Rijn
(new: Julian Keijzer)

Stan Otte
(new: Frank Schilperpoort)

Myla van Wegen
(new: Cas van Ruiten)

Matthijs van der Wielen
(new: Emile Heezen)

Dispuut Taylor

Room 34 G-1-375

Department of Precision and
Microsystem Engineering

Mekelweg 2

2628 CD Delft

BOARD

Chairman

Secretary

Treasurer

Internal Affairs

External Affairs

LOCATION

CONTACT



+31 (0) 15 2786850



taylor-3me@tudelft.nl

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

— Hi there dear reader, and welcome to the final time I'm going to bother you!

First of all, to all the freshly joined HTE and MOOM students, welcome to the PME family! It's nice to see that again this year we have a healthy amount of first years and we've already seen that plenty of you are joining the active ranks of Taylor. I can only say from a very subjective perspective that joining the activities from Taylor definitely makes your masters a whole lot more enjoyable, it's never too late to join in!

In this marvelous edition of the Taylor Vision we look back at some of the highlights of the first quarter of this year which started off amazing already, and of course we'll share some insights of our fantastic Taylor trip from last summer. I still find it hard to believe sometimes, but somehow, someway, the Taylor trip committee managed to pull it off. 28 participants that joined on a road trip through Germany, Denmark and Sweden, driven in a very comfortable touringcar lead by legendary busdriver Erwin and his rather exceptional sense of humor. A very entertaining combination to say the least. Of course for the extended edition of the highlights there are 28 people that can give

you the goosebumps by telling you all the inside stories to hype you for the next edition, but for the sake of efficiency (HTE'er speaking here) we thought to share some here.

On the note of "passing the baton" to the new Taylor board, (envision dramatic Titanic-like music in your head) it's hard to let go... which is exactly the reason why we haven't, at least not entirely. That's all I'm going to say about it for now (yes, this is a giant cliffhanger). But a new year comes with new opportunities as it seems. Excursions, physical lunch lectures and even drinks at PME square again, I don't think we could've handled that kind of freedom. It was a good time to pass on Taylor to a fresh set of minds.

Dear successors, you've already made a strong start in your first quarter regarding managing Taylor. We're glad that measures are decreasing and it's great to see that you're taking full advantage of the freedom with an already full agenda with Taylor activities for the coming year. Don't forget to "enjoy the journey", we wish you the very best. Until we meet again at the coffee machine!

Taylor Board 20/21 out

On behalf of the Taylor Board,

Jaap Resink (Taylor 20/21)

recent graduates

07/07/2021	Pim van der Stigchel	Design and comparison of high speed cable driven parallel pick and place robots, performing a Schönfliess motion
12/07/2021	Joran van der Zwet	Prevention of enclosed voids in topology optimization
13/07/2021	Tim Jansen	Mode coupling in nanomechanical string resonators
13/07/2021	Rob Neelen	Large-scale overlay: A study into inaccuracies in roll-to-plate nano imprint lithography
16/07/2021	Stijn Paardekooper	Dynamics of microfluidic cantilevers in a photothermal AFM
21/07/2021	Akash Kumar Jain	Study and improvement of dynamics of an Electron Beam Lithography Machine
22/07/2021	Matthijs van Reeuwijk	Design of a miniature gas exchanger for oxygen control in microfluids
23/07/2021	Mathew Mohan	Resetting velocity feedback: reset control for improved transient damping
23/07/2021	Sanne Elschot	Inkjet printing of a low actuation voltage dielectric elastomer actuator
30/07/2021	Robyn Gerlach	Reduction of twist moment by application of pre-stress for compliant curved beam transmission systems
03/08/2021	Daniël van Dam	A novel suspended microchannel resonator design with a high Qf product
17/08/2021	Hani AlHasni	Adaptive multimodal damping of flexible structures
17/08/2021	Wietske Maas	The topology optimization of a compliant variable-camber morphing wing
20/08/2021	Tjebbe de Lint	Investigation of the nonlinear dynamics of a diamagnetically levitating plate

20/08/2021	Romano Meijer	Tunable magnets: Dynamic flux-feedback compensation methods for improved magnetization state tuning performance and minor-loop magnetization state tuning for the validation and reduction of the break-even tuning interval
23/08/2021	Ramon de Koning	Conceptual design of a novel small-scale CO ₂ compressor
24/08/2021	Thomas van der Graaf	Active vibration control: using over-sensing and over-actuation
24/08/2021	Edward van Wijk	Design of a constant moment crease for use in neutrally stable origami
24/08/2021	Arjan de Wildt	The design, build and verification of a 6-DOF measurement setup for flow-induced vibration forces that result in sub-nanometer wafer error
26/08/2021	Shrinath Diwakar	Avoiding excessive zero crossings in reset control
27/08/2021	Qais Akolawala	3D engineered glioblastoma microenvironments for proton beam irradiation
27/08/2021	Hali Tuztasi	Fabrication of nanodiamond loaded photoresist microstructures using two-photon polymerization
27/08/2021	Tingting Wang	Using reset control for improvement of transient response with multiple integrators
27/08/2021	Onno Wijnberg	On the stiffness of linear roller bearings
30/08/2021	Ambareesh Rathi	Precision mechanism design for 3-DOF in-plane alignment in μm and sub mrad level
06/09/2021	Marcos Alvarez	Design of an optimized cost-effective photogrammetric 3D-imaging system for small archaeological artifacts
08/09/2021	Yaqian Zhong	Thermal process modelling of lattice structures during selective laser melting process
08/09/2021	Julian Schumann	Autoencoder enabled global optimization
09/09/2021	Jeroen Houwen	Prediction of lifetime and failure mechanisms of rolling contacts in DOT Direct Drive Pump
14/09/2021	Zabreen Nissar	Lung-on-a-chip: design and manufacture of a resealable device for recreating the alveolar capillary barrier in vitro
17/09/2021	Damla Yengül	Design and fabrication of a soft photonic crystal brain implant
30/09/2021	Mark Driessens	Feasibility assessment of motion compensated cranes at an early design stage
01/10/2021	Jasper Hoevenaars	Approximate geometric non-linear analysis in topology optimization

04/10/2021	Max Ligthart	A validation system for the compressor side of an electric assisted turbocharger
13/10/2021	Levi Dekker	A ground structure based topology optimization method for thermofluid problems
14/10/2021	Pieter van Altena	Multiscale 3D printed polymer probes for single cell experiments
14/10/2021	Willem van de Sande	Design of a nanometer precision interferometer with a telecom laser source
14/10/2021	Naut Meinders	Optimization of multiple sets of flexures to compensate for parasitic motions and cross-couplings in compliant mechanisms with desired stiffnesses and dynamics
15/10/2021	Marc Gritter	Design of a robot mounted X-type projection welding machine
25/10/2021	Mohammed Miyajiwala	Reset based skyhook damping
27/10/2021	Frank Overes	Focal plane flatness of electrostatic lenses
28/10/2021	Wahhe Ajroemjan	Thermo-optic modelling for microlithographic projection system
28/10/2021	Nastaran Barin	3D-Engineered scaffolds to study primary glioblastoma microtube formation and EGFR expression
28/10/2021	Chakravarthy Devabhaktuni	In-situ spectral calibration module for an earth observation satellite
28/10/2021	Sanjay Arun Sekar	Manufacturing process for inkjet-printing a relaxor ferroelectric actuator
29/10/2021	Thijs Oude Vrielink	Design method for 3D printed compliant mechanisms

introducing

taylor board 21/22

SOPHIE - CHAIR

The new chairwoman of this year's Taylor board is Sophie. As the only girl and the chairwoman she has the task to keep the boys as well as the association in check. This is not the most easy of tasks with all the crazy ideas thrown in the group after all the corona restrictions are gone. Of course she has many good ones of her own as well.

Sophie



Apart from doing a double masters degree and the Taylor board she enjoys travelling, especially participating or organizing car rallies. But if she's not by car, she is always in for a drink of maximum 3 with friends (more would mean too crazy of a night and 'a weekend of hangover'). With all the experience in committees she will for sure make a great leader of the pack.

Cas van Ruiten



New Board

JULIAN - SECRETARY

The new secretary of the Taylor board is the bootilicious Julian Keizer. With his smile always ready, this boy from Amstelveen has quickly found his spot among the board. As secretary he keeps everything in check, preventing total chaos by keeping an eye on his board members. Every mail and promo app is sent by Julian; but who is the man behind this digital front? Every morning he travels by bus 40 from Rotterdam to the TU Delft, but somehow you never seem to see him on the bus. Is he really taking it? Furthermore, he is annoyingly good at ping pong, his only real opponent is Emile. Besides

this athletic ability, he has another superpower. You may have not noticed it yet, but Julian never has a bad hair day. Never. He is always in to meet new people and to make a quick buck being a mentor for the first year bachelor students. Although he and Cas seem to be spending quite some time with their mechanical engineering kids, maybe they are missing their own easy-going first study years? All jokes aside, Julian is an amazing secretary and a true gem within the Taylor community. P.s. He is also available for date dinners, his phone number can be requested to any of the other board members

Sophie den Boer

FRANK - TREASURER

Frank, our treasurer, will dedicate one year as a member of the Taylor board to be responsible for all the finances and to become known as the "Master of coin". If it's up to him he would spend all the money on luxurious piston coffee machines to replace the machines at PME square. And the only coffee beans that are

allowed to touch the grinders are kopi luwak beans imported from Indonesia. Luckily he knows how to restrain himself and knows what's best to invest in. Which makes him a reliable and good companion. And if companies don't trust this well looking Johnny Depp look-alike with their money, I have no idea who else.

Julian Keizer

Frank



Cas



Julian



Emile



CAS - INTERNAL AFFAIRS

The legend on the left (check) goes by the name of Cas (pronounce: ca\$h). Cas is the perfect student, as he is still doing courses in his second year, just because he likes to. Cas' function will be commissioner of internal affairs. This means, basically, Cas is our intern, meaning for any task that needs some assistance, Cas is the guy to target. Next to everything you would like Cas to do, Cas will of course also optimize the education program and the way teachers should behave towards the students. For questions, tips, a chat about horse back riding, building a horse, come by the office and tie on a conversation with Cas!

Favorite color: probably red
Compatible with XP: yes

Emile Heezen

EMILE - EXTERNAL AFFAIRS (by Frank)

The external affairs member of the Taylor board this year is Emile Heezen! Emile will devote his time to raking in the money and getting the most out of our partners. You can already tell by the look in his eyes that he means business. Emile also has a lot of insider information from many high tech companies as he spent his youth in lovely Veldhoven. Emile basically eats, sleeps and drinks high tech engineering and it shows.

Frank Schilperoort

upcoming activities

Second quarter:



November 10th

Precision fair

's Hertogenbosch



November 16th

Lunch Lecture

Hittech



November 18th

Q2 Drinks

To be announced



November 23rd

Girls Day

To be announced



November 30th

Lunch Lecture

VDL



December 6th

Course

COMSOL



December 14th

Christmas Drinks

To be announced



November 25th

Excursion

Prodrive

Safe the date:



March 11th

Taylor Gala

To be announced



April 29th-May 1st

Taylor Weekend Trip

To be announced



MS 4325, Application of Materials in High Tech Engineering

"The course that was still missing"

In Q3 February 2022 a new course specially developed from the industry's perspective will be given for the first time.

The course trains students in performing material and process selection by using objective and quantitative criteria during their development process. A substantial part of the course consists of a compilation of actual cases from and presented by the Dutch High Tech industry (ASML, BKB, Ceratec, Euro-Techniek, Hittech, Ramlab, ThermoFisher Scientific, VDL). Each of the 7 weeks will start with a presentation from the industry. TU lecturers subsequently provide further insight into the related materials science background and selection method.

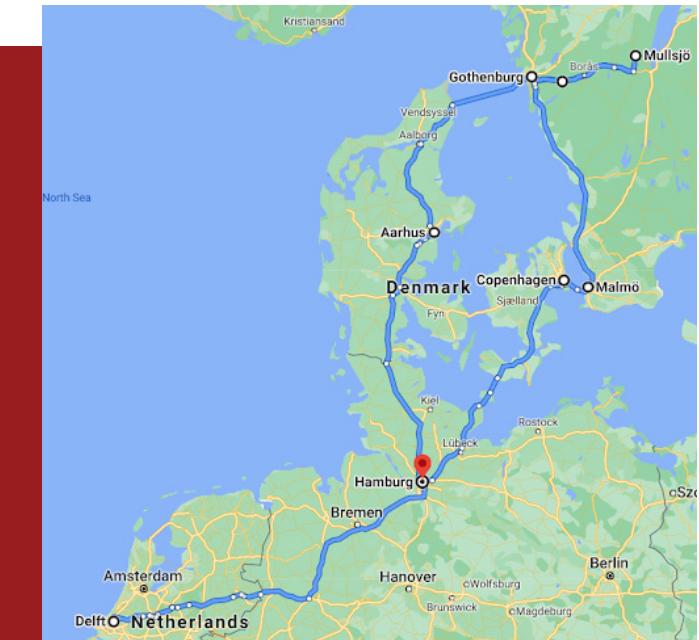
One of the examples is the redesign of a cooler used for thermal

stabilization in a wafer-stage from ASML. Accurately machining and assembly resulted in a lead time of 21 weeks for production. The Hittech group who produces this cooler changed production into 3d metal printing reducing production time by a factor of 4. Theoretic background and lessons learned from this redesign will be presented by specialist researchers from the MSE Faculty.

Another example is about a part of an electron microscope developed by Thermo Fisher Scientific. In order to have reproducible and stable atomic resolution, components of this microscope need to be designed with a strong knowledge on the behavior of the materials used. With the many challenging requirements involving vacuum compatibility, non-magnetic properties, thermal stability, precision manufacturability, etc. the development of e.g. a Transmission Electron Microscope (TEM) sample holder becomes an exciting scientific puzzle.



Trip Plan



taylor trip

So close to home and yet such a special trip! Taylor trip '21 set out on a road trip through Denmark, Sweden, and Germany with an amazing group of 28 fun people! With a total of six different stops with lots of things to see and do, the trip was filled with activities and plenty of fun.

Denmark. Our first visit took place here, which was actually a university, namely the DTU (Danmarks Tekniske Universitet). Here we saw how the study of Mechanical Engineering can be taught a bit differently from what we are used to.

COPENHAGEN was our first stop where we had plenty of hygge (fun)! We explored the city while also enjoying the occasional Danish beers on terraces and even in some clubs! As it was possible to responsibly enjoy clubbing despite Covid in

LUND AND MALMÖ being the second location, where the planning was to have a refreshing dive in an old quarry. Unfortunately this couldn't go through due to bad weather. The frustration thanks to the bad weather could luckily be used to have a huge laser-game battle! Luckily, we

still left as friends despite being shot (a lot) by each other. Despite the rain our luxurious hotel offered a sauna which was well deserved. Our second day in Lund was dedicated to the visit of two companies, namely Haldex and Saab Kockums (the submarine manufacturer) where we learned about the difficulties of brakes and suspensions of trucks, and got a briefing about Saab's submarines and how they are roughly built. We even got a small insight into the Dutch submarine programme.

GOTHENBURG housed a Volvo trucks factory that we got to visit. At Volvo we were greeted by the Dutch flag which was especially hoisted for us next to the Swedish flags! After a train ride through the factory in a small Volvo truck and learning how the truck fabrication still needs a lot of (wo)man-power, we went to the city center of Gothenburg.

In Gothenburg we could again enjoy some nice bars and clubs in the evening but needed to be fit to visit two companies the next day, namely



Visit at
Volvo



Visit at
TMC



Most epic
rap crew
ever

A PASSION FOR TECHNOLOGY

Responsible

You don't just go to work,
you feel responsible for your project



We're looking for

Mechanical design engineer

Mechanical precision engineer

Thermodynamics & fluid engineer

Opto-mechatronics engineer

Mechatronic engineer

Flexible

You decide when, where
and how much you want to work



Manufacturing

You like to think about
manufacturability when designing



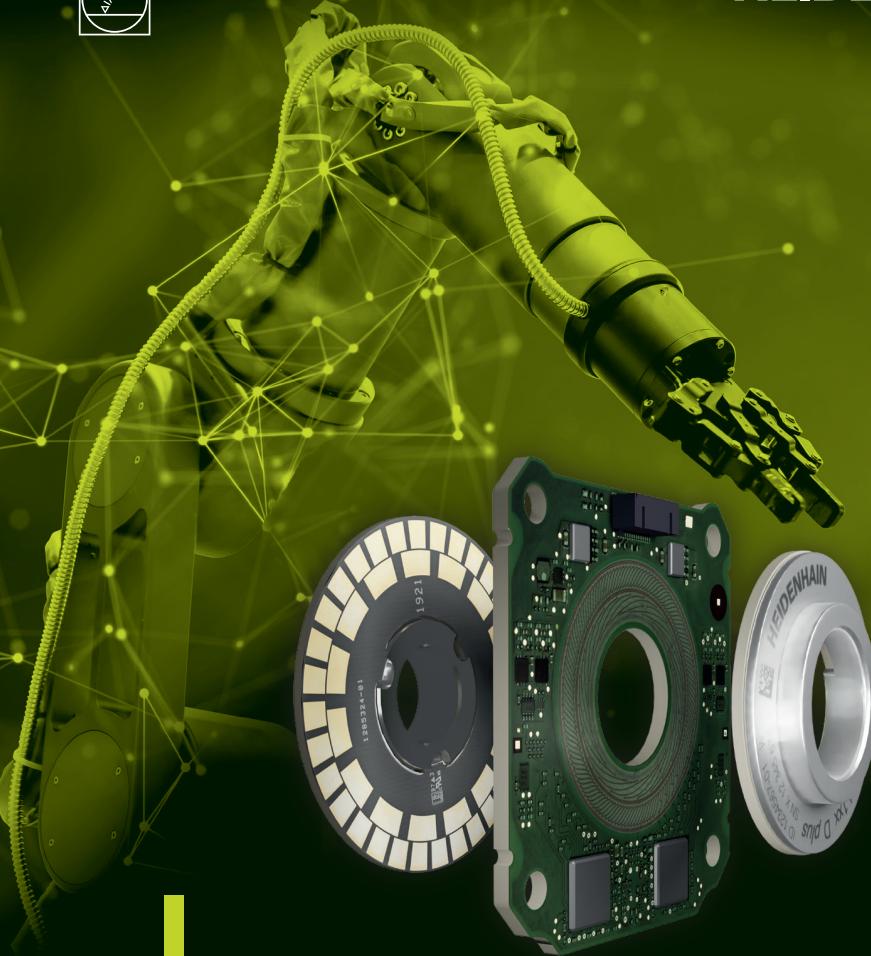
Initiative

You don't sit and wait,
you have a hands-on mentality





HEIDENHAIN



The KCI 120Dplus Dual Encoder High-Accuracy Robot Motion

The new KCI 120Dplus dual encoder from HEIDENHAIN combines motor feedback and position measurement in a single compact rotary encoder. Both benefits can be applied to every robot axis, correcting inaccuracies such as gearbox backlash and work-induced reaction forces. The HEIDENHAIN KCI 120Dplus thereby turns a typical articulated robot into a high-accuracy manufacturing system and dependable cobot.

HEIDENHAIN NEDERLAND B.V. 6716 BM Ede, Netherlands Phone 0318-581800 www.heidenhain.nl

Angle Encoders + Linear Encoders + Contouring Controls + Digital Readouts + Length Gauges + Rotary Encoders

SKF and TMC. At SKF we learned a lot about the manufacturing process of a bearing and about the new business plan of SKF. We even got a tour through the highly automated factory and got some real SKF merch! Before going to TMC we enjoyed a business lunch while still fully suited up and then got insight into what it means to be a technical consultant.

MULLSJÖ offered beautiful Swedish nature which was relaxing after all the time spent in cities. We thus went to a cabin in the woods for three days where we could all relax a bit with some swimming, hiking, and a high-altitude course with some ziplining as well! We also had our very own furry evening organized by the fresh Taylor board concluded by a big party!



AARHUS was reached after an early rise and ferry-ride. On the way there we went to visit the company incubator NOVI to meet some small startups from the nearby university in Aalborg. Enlightened by the inspiration to start our own companies we went to the center of Aarhus where the university introduction week was in full swing. Student filled bars resulted in a very lively and fun evening.

The next day was quite full with a tight schedule during a visit to the Aarhus university and the iNano faculty where we got insight into yet another way of teaching mechanical engineering as the university not only taught engineering studies, but also natural sciences and even law! After a lunch at the university canteen we went to Hamburg where we could again explore a new city while guided by our very own Hamburger Florian!

Cabin in the woods



Hiking adventure



Drinks in
Hamburg

HAMBURG seen from the water side is quite a sight to be seen, especially the huge container vessels in the nearby port. Since we needed to go out with a bang, we concluded the trip with a Pub crawl through Hamburg which we all finished in the same bar. And since the night life unfortunately has to close at 11 in Hamburg, we concluded the evening with our own Taylor Trip party in the hostel.



Late night
in Hamburg



Visit at SKF



With the bus
and driver

*Day at the
art centre*



activities

introduction week

ART CENTRE

The day at the arts centre is definitely one of the highlights of the introduction week. In the morning a panel discussion was held by the professors of the PME department. After this interesting discussion, the students put together their curriculum with the help and guidance of Eveline and

the current and old board. The lunch didn't disappoint this year with a delicious buffet with as the creme de la creme the world famous vitello tonnato. The day ended with a well needed drinks session. We want to thank Eveline and the old board for their efforts into making the arts centre days a great success.

*Day at the
art centre*



CRAZY 88 - TREASUREHUNT

After a morning of walking around the online environment of Gather-town it was time to go offline and meet some fellow HTE students! This was done with a crazy 88 treasure hunt with a total of 50 crazy activities. With activities like 'buying an ice cream at two different places

and convincing each other that yours was best' or 'rating different pubs' everybody got to know each other, the campus, the city center and even Dutch culture in a fun way. With the amount of enthusiasm we saw groups walking through Delft doing all the tasks it was good to see people offline.

Delft centre

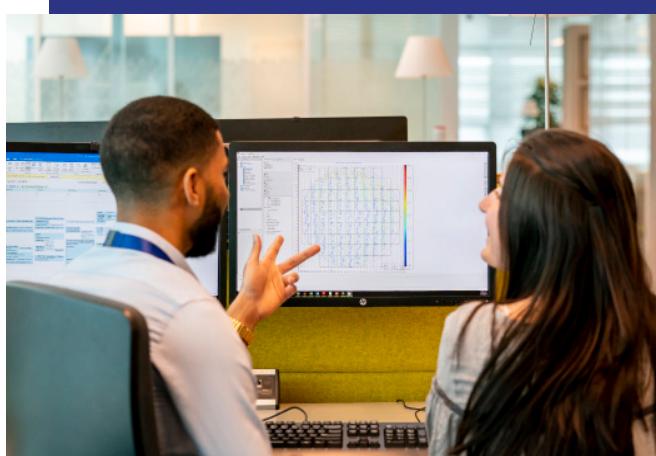


Chilling at the sports day



SPORTS DAY

The introduction week ended in good fashion with a sports day. After sitting down at the Arts centre stuffing our faces with delicious vitello tonnato, some exercise was more than welcome. During the bright and sunny day, rotating groups enjoyed a whole host of different sports. Among which football, kubbs, korfball, tag rugby and even some classic Dutch games like 'spijkerpoepen' and 'zaklopen'. After all the action we recovered with some snacks and beverages and soaked up the sun. All in all, a fitting end to a great week!



ASML

When opportunity knocks, dare to open the door

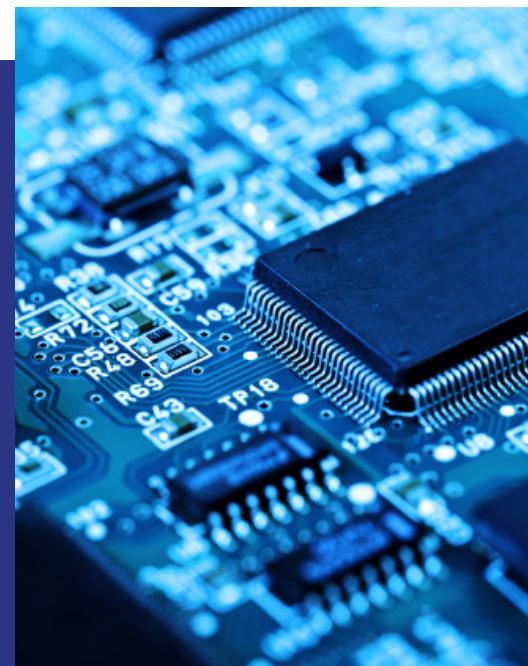
Experienced people know that careers are founded on as much luck as judgement and skill, as Arnela Masic discovered during her engineering studies in 2015. One lucky moment put her on a path to the career she enjoys today: she forgot her lunch. "A friend suggested I could get a free lunch at an ASML-hosted lunch meeting on campus that day. It was there I learned about the ASML scholarship. I applied and was eventually selected – it felt pretty special as only 25 scholarships are on offer in the Netherlands each year." Through the scholarship, ASML supported Arnela through a Masters in Systems and Control, which then led to her joining the company in 2017.

Nothing “grey-haired” about it

"Everybody at my university had heard of ASML – the logo is everywhere. But what they did there was more of a mystery. For me personally, 'lithography' did not sound as interesting as other technical industries like aerospace or automotive. I was picturing grey-haired guys doing boring experiments. It wasn't until I got to know them through the scholarship that I realized there's nothing 'grey-haired' about it. There are so many different careers here, with such diverse, super-smart people. It was nothing like I expected."

Engineering and so much more

"I was looking for more than just a 'technical' job. After learning about the many different careers on offer, the role of Customer Support Applications Engineer really appealed to me. I get to travel to customer sites around the world – the US, Korea, Japan, China and Taiwan – and work on projects to improve the performance of our lithography systems. I get to use my engineering knowledge – not in terms of always knowing the answers, but in terms of applying logic, troubleshooting, analysis and identifying which experts can help – and I combine it with communications, project management and implementation. There's great team spirit; I'm supported by a wide network of experienced colleagues who all help each other."



An idea worth millions

"And I receive lots of training, both technical and non-technical – soft skills like customer focus and influencing without power." Arnela quickly found out how useful her newly acquired skills are. "There was a project at a customer where it was important to prove a certain output of a machine in order to make the sale. However, at that moment, there was an issue with one of the machine parts that would not have helped my demo test. My training helped me convince people to make this issue a priority over their own projects, resulting not only in a permanent solution, but also in the sale of the system worth millions!"

Arnela's advice – 'go for it'

"My advice is if something about a job sounds interesting then don't overthink it, just try it, because you never know exactly what you will be doing on a day to day basis. That's ok, nobody does when they start. But at companies like ASML, you will have excellent training, support and inspiring colleagues, so there's no need to be afraid to go for it. When opportunity knocks, dare to open the door. For me, there's has literally been a whole world to discover, and I'm really enjoying the journey – it was worth stepping into the unknown to start it."

Curious to learn how you can be a part of progress?

Contact our campus promoter Sara at your university at sara@workingatasml.com with all of your questions about ASML or visit www.asml.com/students.

BARBAAR BORREL

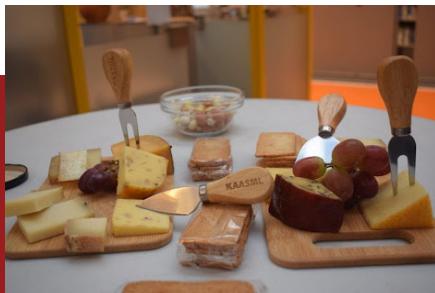
The 14th of september it was time for the first Taylor drink of the year! After the introduction week and first week of studying this was a welcome relief for the first year students. The same was true for 2nd years, struggling with their literature studies. At 6 O'clock we gathered at city café the BAR/BAAR at the Prinsenhof with 50 HTE students to have some beers. There was a nice mix of old and new faces, with plenty of drinks to go around provided by the PME department.

Full tables and lively discussions ensued. It was very 'gezellig' to see a lot of people from the Taylor trip again and converse with the first years on their choices, the coming courses and my own experiences. At 10 O'clock we left the bar to have a spontaneous after party at a lovely students' large apartment including a big deck. With snacks and drinks, a few Dutch classics, Spanish club music and a lot of dancing the evening was complete. It was a great start to the year. Looking forward to the next one!

Menno (HTE Student)

activities

first quarter



*Say
cheeeeese*



At BARBAAR

kaASML

On the 7th of October the kaASML cheese tasting was held at the PME department. With a mix of students and PME staff we enjoyed several tasty cheeses and port. People

attending could also get their own kaASML cheese knife thanks to ASML. It was really nice to see so many people on the department again and we would love to see everyone together like this more often!

FLEXOUS LUNCH LECTURE

Flexous is a company founded in Delft by former assistant professor of the PME department Dr. Nima Tolou. During the lunch lecture he told us about the story on how a visit to the airport lead to something that would change the watchmakers industry forever. He mentioned that while he was waiting for his luggage and in particular his watch to be x-rayed the official dropped his timepiece by accident, which broke the oscillator and got him thinking. For more than a century the design of oscillators did not change much. It consisted of over thirty considerably small parts. An idea for a cutting edge piece of precision engineering design was born: a new type of oscillator for high end

Flexous
lecture



ASML LUNCH LECTURE

Even though every High-tech engineering student knows the Veldhoven based company ASML and has an idea of how their machine works. In his lecture about 'Predicting the functionality of the EUV system in the future', Joep Alleleijn gave the students insights in what problems he faces every day and how he comes to a solution. Many students were interested in this talk. Due to the lecture hall being at full capacity, some students had to attend the lecture

watches that now consisted of only one single silicon part. Therefore, it is more robust to impacts, able to operate at higher frequencies and has an increased accuracy compared to other mechanical watches. The icing on the cake was watches can now be made a lot thinner since the oscillator used to be the critical part determining its thickness. He also took the desires of watchmakers into consideration by implementing original designs to calibrate the oscillator. Today Flexous doesn't stick to watches alone but is also looking further. They are trying to reversely apply this technique in energy harvesters and can therefore act as a battery.

Yannick van den Berg
(HTE student)



ASML
lecture

via a livestream. An actuator in the source of a 100 million plus dollar costing EUV lithography machines of ASML failed unexpectedly, you can see that any down time to change the actuator is quite costly. Joep was tasked with finding a solution to prevent the unexpected failure. During the lecture Joep talked about the whole process to the students. It was very interesting to learn about the approach Joep and ASML took to tackle this specific problem.

Ward Dijkman (HTE student)

interview

with Eveline Matroos by Myla van Wegen

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

I am Eveline and I have been working at the TU Delft for about seven years. I am a mother of two boys, 14 and 15 in the mids of puberty. I live in Delft, but have not lived there my whole life. For example, I have lived on the Dutch Caribbean Island Curacao for a few years. My background is, funny enough, not technical, but it's more political. I worked at the ministry of economic affairs as policy officer and secretary to the minister of economic affairs. A totally different environment from where I am now, although I discovered that there is also some politics going on at the TU Delft. So how did I end up in the education? When I lived in the caribbean I first had a job as a programme coordinator for a financial education institute. It was an institute organised by the different banks of the island to educate personnel to get a higher level on their financial knowledge. That is how I met students, organised workshops with The States and the Netherlands. I really liked that kind of environment. When I came back to the Netherlands, I landed in Delft and then, of course, TU Delft is the biggest education institute, so that is how I ended up working here. All aspects of my experience come together here.

***"I really
love the
interaction
with my
students
and my col-
leagues"***

my two boys and to see how they are growing and developing. I enjoy watching good series, mostly good detectives/thrillers, and really enjoy spending time with our friends and family. I love to walk, I prefer to go for a walk after dinner to the centre of Delft.

***Did you always think of coming back to
the Netherlands when you were in the
Caribbean?***

It was actually always clear that we wanted to come back. We went there because my husband was an expat for the ministry of financial affairs. At some point we needed to decide what was a good time to come back to Holland, especially with the kids. We have family in the Netherlands and in Curacao, so it was very nice to be around them for a few years. It was lovely to see where my husband grew up and for the kids to experience the island life. Normally, we go back every year, but now due to covid we haven't seen our family for about 2,5 years, so we miss all the people there. We are looking forward to go there this summer.

***How would you compare the island life to
the dutch life?***

It is totally different. You live a lot more outside and much more spontaneous. For example, during work you get a text "let's have a bbq on the beach this evening where everyone brings some drinks and food", and that is what you are

going to do. I think everyone works as hard as in the Netherlands, but your weekends and free time feel like small holidays. That is really nice, and of course the sun is almost always shining, so when you drive to work, the sky is blue and that does something to your mood. In the Netherlands everyone is always in a hurry and looking a bit grumpy, especially in the winter. At the station everybody is just pacing and bumping, I now miss the smiling faces. However, everything is by car. I really had to get used to that. I really missed grabbing my bike to go to the supermarket. On the island you take the car, or the bus if it decides to come.

What do you enjoy most about being a masters coordinator at the department now?

I really love the interaction with my students and my colleagues. I love it when someone comes into my room and they feel like they lost track or how to pick up certain things when they did not go according to plan and then I can help them; give them some pointers, advice to guide them in a direction and then they leave your room with a smile on their face. I enjoy people spontaneously walking in to give feedback or just come by

for a chat and share how they are doing. It is nice to be involved in the community. I also like working in a department, so I can see how the research is going, how colleagues are contributing to society and I can be a small part of that.

I can imagine that last year did not have so many spontaneous visits. How did you experience the time during covid?

Yeah, that was certainly a challenge. In the beginning I did not even have skype for business or teams installed. Also, I had a very old version of Windows, so the only thing I could do was receive and write emails (which I also received a lot). At a certain point , after some help from our IT department, I got all the programs I needed installed and was able to have face to face online meetings, which made everything a lot better. But still, especially for students who started last year, they only saw me one day during the intro week. It was difficult to get on their radar, sometimes they were directed by higher year students to me and explained how I could help out. They were a bit more hesitant to plan online meetings. Also it was difficult to keep an eye on how students were doing. Hopefully this year, when things are hybrid or fully open up, I hope it will help the students so that they can always come to me if they need some guidance or help with something.

Are there any tasks that you find particularly challenging as a masters coordinator?

Keeping an eye out on the progress of students. It is not that I am big brother watching, but sometimes I do a check to see how students are doing, how much ECTS everyone has and to see if people are doing well. And, of course, we grew quite a lot

Eveline with her sons



***“Education
is in the end
about stu-
dents and it
is important
to listen to
how they
think about
certain
things”***

in the previous years. So it is more students, so more work, so a greater challenge. Also maybe recognising if someone is not doing well. We are all involved in the students' well being, also Taylor. If someone is not feeling good, it is difficult to recognize these signals. Also, to be on the radar, that students can come to me if something is in the way of their studies. It is so important to keep an eye out for each other, especially now that everything is getting back to normal where reality might hit. I am really grateful for the Taylor Board how they coped with things last year, made online meetups possible and still organized a lot of events. They really contributed in staying a community even though we were mostly online.

You recently also joined the works council, I am curious why you decided to make that step and how you have experienced it so far.

Yeah, so I decided to do it because I am 44 and I still want to grow and develop myself; to get more experience in things. Maybe also due to my past in a more political environment, I was interested to have a helicopter view on all the issues that play in the whole university: properties, health, safety, HR, etc. To be part of those discussions and mean something for your colleagues having their best interest in mind. Also, to do meetings with the student council. I really wanted to be more involved in that sense, and be able to contribute and improve things. I myself am in the committees of education & research and HR. As of February I am the secretary of the council where I am involved in making the letters and documents for the board. That was an opportunity to grow and I took that chance.

***That sounds like a time investing job?
Are you able to combine it?***

I worked for four days in the past, now five. So that is part of how I solved it. As a secretary you have to work at least two days for the council, so that means I had a day less for the master. However, in the past I was also coordinator of Bachelor Final Projects, which they took off my plate. Next to that, I have a great support from the secretaries of the department. It is about finding a balance; as long as the peaks are not on the same time in both positions, it works for me. I like to be under pressure and I would rather be very busy than be bored.

Are the politics at the TU Delft a lot different from the ministry of economic affairs?

I remember when I had my interview that Fred van Keulen said to me that my political experience will be very useful in this organization. I was wondering what he was talking about, but now I understand what he meant. A lot of politics are involved, a lot of different interests have to be managed. The sensitivity of how to handle certain problems and conversations, is comparable and my experience helps me a lot in that sense: How is everything effected and connected? How not to approach things or topics? In discussions, how to steer them in a certain direction. Also, I like to work with the students council and have in depth discussion with students. Education is in the end about students and it is important to listen to how they think about certain things.

Is there anything you would like to add?

Just that I hope we will have a great year and let's make sure it is a good one!

Myla van Wegen (Taylor 20/21)

It is time to give you my last puzzle, so I won't go easy on you. Below we have a so called Hitori.

Hitori is played with a grid of squares or cells, with each cell initially containing a number. The game is played by eliminating squares/numbers and this is done by blacking them out. The objective is to transform the grid to a state wherein all three following rules are true:

No row or column can have more than one occurrence of any given number

Black cells cannot be adjacent, although they can be diagonal to one another.

The remaining numbered cells must be all connected to each other, horizontally or vertically.

An example is given below on the left.
Good luck!

puzzle

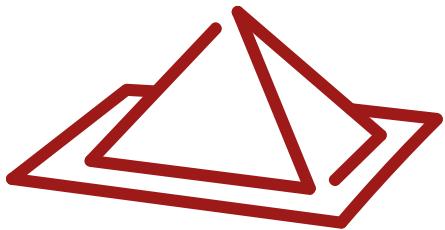
by Matthijs

3	1	2	2	3
3	5	2	1	2
4	4	3	1	1
4	2	5	3	5
4	3	5	2	3

	1	2		3
3	5		1	2
	4	3		1
4	2		3	5
	3	5	2	

13	1	6	3	13	14	4	15	13	7	8	13	5	6	12
14	10	8	4	12	4	2	10	6	10	11	5	4	9	10
12	8	14	7	14	11	12	3	12	1	14	15	9	14	2
1	2	7	2	3	13	9	14	11	13	12	13	8	10	13
13	14	10	5	4	6	11	13	8	10	10	3	13	15	1
6	13	9	8	5	10	4	7	12	5	4	13	11	6	14
15	5	10	5	14	4	1	11	6	12	2	7	3	8	6
8	2	11	15	5	1	6	1	4	13	7	13	10	12	13
5	7	3	14	8	12	7	4	3	6	7	2	7	11	3
13	11	3	6	8	2	14	7	1	8	15	13	4	12	7
3	5	14	12	5	9	5	2	5	11	5	10	6	5	4
8	12	6	1	2	1	7	1	15	1	3	11	6	4	8
11	14	4	10	8	15	5	12	8	9	14	8	13	7	8
6	9	6	1	7	8	6	10	14	1	5	12	2	6	11
7	3	13	11	11	3	15	5	5	14	9	3	12	2	5

*Send an email to
taylor-3me@
tudelft.nl with
your solution
and you might
win a prize!*



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