

ENGINEER'S PULSE

January 2025 Edition

ENGSO**C**
ONTARIO TECH ENGINEERING STUDENTS' SOCIETY

CELC 2025 Delegate's Insight

Canadian Engineering Leadership Conference

The Canadian Engineering Leadership Conference (CELC) 2025 was a week of inspiration, collaboration, and progress. From insightful workshops like Equity, Diversity, and Inclusion (EDI) training to critical updates from CFES officers, the event embodied the spirit of leadership and innovation.



- **Driving Change:** EDI training and national survey discussions took center stage, fostering inclusivity and forward-thinking solutions in engineering.
- **New Developments:** The Canadian Federation of Engineering Students (CFES) unveiled exciting initiatives, including a robust bilingualism strategy and enhanced governance practices.
- **Building Partnerships:** Strengthened collaborations with Engineers Canada, opening new doors for student opportunities and support.



Event Recap:

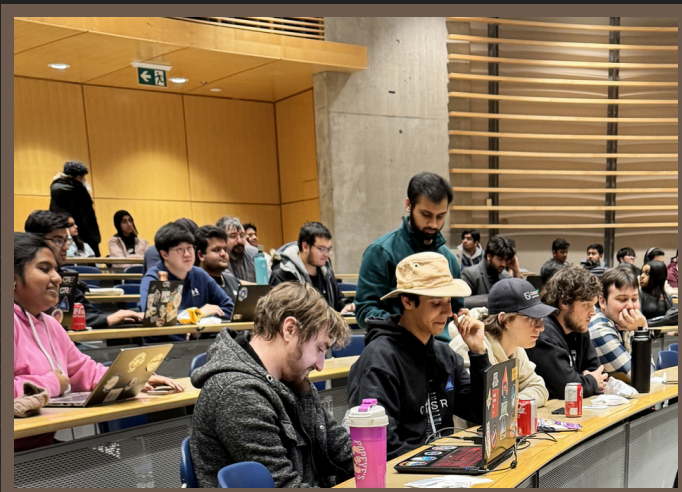
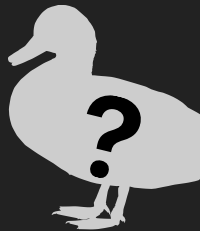
Annual General Meeting

On January 31, 2025, we kicked off the year with the Annual General Meeting (AGM), bringing together not just Ontario Tech's but engineering students also from TMU and York University!

The evening began with a giveaway and wrapped up on a high note with a delicious dinner. We started with an executive report, where execs shared their accomplishments so far and what's ahead for the society. This was followed by a detailed budget discussion, during which the team addressed questions and concerns from the audience. Attendees joined both in person and online, making it an inclusive and interactive experience.

Duck or Goose ? The patch update was a crowd favorite, with the winning team soon to earn the exclusive **Goose** patch!

A huge thanks to everyone who joined us for this unforgettable night! Stay tuned for more exciting events and opportunities to get involved!



Get Back Into Gear!

Featured Resources for Engineering Students

“The main advantage of these resources is that they’re completely FREE. You’ll be learning from someone who has achieved at least an A- in the course without the high costs of independent tutors.

In addition, independent tutors often focus solely on teaching concepts, whereas peer tutors from the Student Learning Center have firsthand experience with the course. This familiarity is especially valuable for courses with heavy notation, like Math or Physics.” - Mason S, Peer Tutor

Peer Tutoring

Need help with course content, study skills, or writing? Book an appointment with one of our school’s top-notch upper-year tutors who’ve excelled in their courses. Bring your questions, materials, and homework, and get the tailored support you need to succeed!

Peer Pods

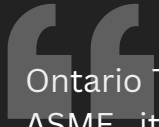
Peer Pods are flexible, and drop-in sessions are created to help students navigate tough courses. Run by experienced peer facilitators, these sessions provide a relaxed and supportive group environment where you can ask questions, work through problems, and strengthen your understanding.

PASS

Stay on track with your toughest courses—PASS offers weekly, informal review sessions led by students who’ve achieved A- or higher in the same course. These sessions are designed to sync with your class schedule, providing targeted and relaxed support for historically challenging subjects.

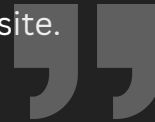
Study Halls

Get expert help at our drop-in study halls, which are available both online and in person at Shawenjigewining Hall (second floor). Led by engineering, math, and science specialists, these sessions cover a wide variety of courses to help you tackle any challenge you’ll face in your engineering journey.



Ontario Tech's American Society of Mechanical Engineers is a student section under ASME, it's an on campus group that aims to enrich experiences for engineering students. Our current weekly event is “Mech Mondays” where students have the opportunity to drop by in ACE 4010, 3 to 5 pm, to engage, collaborate, and make ideas happen! Throughout the year, Ontario Tech ASME holds various events like workshops, seminars, and tours to engage students to connect their knowledge outside of academics.

There are also **ASME memberships** that can help with scholarship applications; membership is free for first-years! There are opportunities from this membership that includes networking, professional development skills, volunteer opportunities, and beneficial engineering resources located on their website.



On January 17th, AMSE organized a tour of Canada's largest geothermal system, located right here beneath the university's 7,500-square-metre quad. This geothermal well field is a central component of the campus's Borehole Thermal Energy Storage System, providing an eco-friendly heating and cooling solution for the university's buildings.



The geothermal system features 384 wells, each 213 metres deep, circulating glycol solution to regulate campus temperatures. This energy-efficient solution not only helps reduce campus energy consumption but also provides students with a unique research opportunity in sustainable energy.

The tour was a highlight for those looking to connect their studies with real-world applications in energy technology. The tour, led by Ken Bright, Director of the Office of Campus Infrastructure and Sustainability, gave students a first-hand look at this impressive facility.

demo fest

2025

Ready to put your skills to the test and compete for up to \$4,500? The Annual **Engineering Demo Fest** is here with 3 thrilling challenges! Gather your ultimate team (up to 4 members), get access to exclusive resources, and show off your innovative ideas.

The Challenges:

- **Line Follower Racing Robot:** Design and build an autonomous robot capable of racing through a complex course, navigating obstacles with no human input! You'll get all the tools you need, including an Arduino board and access to the Design Studio.
- **Capacitor Powered Vehicle Race:** Create a vehicle powered by a single capacitor to travel the farthest distance possible. You'll receive a supercapacitor, DC motor, and access to testing tracks to fine-tune your design.
- **How AI can be used in Education:** Research and develop a solution that uses AI to revolutionize learning and educational processes. With access to Google Cloud AI, Microsoft Azure, Raspberry Pi, and more, the possibilities are endless!

Don't miss out — the deadline to register is **February 7th!**

For further detailed information and to register, head to the FEAS Instagram account: **@ot_feas**

Club Feature:

Project Dev OTU

Project Developers OTU is a new and dynamic club at Ontario Tech University, dedicated to empowering students through hands-on programming and software development projects. Our goal is to bridge the gap between theory and real-world application, helping students turn classroom knowledge into practical, impactful projects.

We provide a collaborative space to explore emerging technologies, enhance coding skills, and build a strong portfolio whether you're a beginner or an experienced developer looking for real-world challenges. We recently launched Future Frame, a Community Software Engineering/Computer Science Co-Op Project. In this project, members collaborate in small, focused teams to build portfolio-worthy projects and gain real-world experience. Participants are assigned challenging projects that require them to develop impactful software solutions, enhancing their technical expertise and teamwork skills while preparing for future careers in the tech industry.

Beyond projects, we provide many networking opportunities! Our upcoming events will feature tech recruiters and industry professionals who will offer career advice, resume critiques, insight into the hiring process, and guidance on tackling technical and behavioral interview questions. Additionally, we will host interview preparation workshops, where students can practice coding challenges, system design problems, and behavioral interview scenarios, receive mock interview feedback, and learn strategies to succeed in competitive job markets.



Follow us on Instagram!
@projectdevelopersotu

Now on the ENGSOC Website:

Access our meeting minutes and newsletter archive!

As the Annual General Meeting (AGM) concludes, we invite you to further familiarize yourself with the operations of your EngSoc society. Did you know that the motions and agendas of EngSoc are readily available on our continually updated website? The motions offer a thorough overview of **why**, **where**, and **how** society funds are allocated, ensuring transparency in every decision made. In contrast, the agendas serve as detailed records of our weekly executive meetings, providing insights into the progress, plans, and decisions that are integral to enhancing your engineering experience.

In addition, past issues of the newsletter are now available on our website under the 'Newsletter Archive' tab. Whether you're catching up on important announcements or revisiting past events and initiatives, the archive provides a complete collection of previous newsletters, allowing you to stay informed and connected with everything happening in our EngSoc community!



Instagram Takeover!

Day in the Life of an Engineering Student

Ever wanted to do an Instagram Takeover? Now's your chance!

We're launching a brand-new series: "**Engineer's POV: A Day in the Life**"

Different years, programs, co-op, on or off-campus—we want to showcase YOUR journey. Share your experiences, answer questions, and give fellow engineers a glimpse into your life. People are curious!

Want to be featured?

Email us at marketing.engsoc@ontariotechu.ca

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