

# ONTARIO TECH UNIVERSITY

CLASS OF 2021 CONVOCATION



FACULTY OF ENGINEERING AND APPLIED SCIENCE



# **VIRTUAL CONVOCATION CEREMONY**

**ONTARIO TECH UNIVERSITY**

**FRIDAY, JUNE 25, 2021**







CONGRATULATIONS  
GRADUATES!



# CONVOCATION CELEBRATES THE SUCCESS OF OUR STUDENTS—THEIR SUCCESS AT ONTARIO TECH AS WELL AS THE ACCOMPLISHMENTS THEY WILL ACHIEVE IN THE FUTURE.

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**We can all take great pride in this moment.** After all, each of us—parents and friends, professors, academic advisors, members of the board—has helped to ensure the academic success of our students.

Although we're celebrating in a different format than past Convocations, our sentiment remains the same. We're proud of our students and we know they're well equipped to meet the challenges of today and in the future.

# CHANCELLOR

The Chancellor serves as the titular head of the university, presiding over Convocation and conferring all degrees, honorary degrees, certificates and diplomas on behalf of the university.

The Chancellor advocates for the university's vision as endorsed by the Board of Governors, and is an essential ambassador who advances the university's external interests

## MESSAGE FROM THE CHANCELLOR

Take a moment and think about your past four years. During a time of unprecedented change, you invested your time, effort and dedication to reach this Convocation. In the history of the world your period of studies represents a mere blip, but in your life, and in that of your families, your years at Ontario Tech University will rank among your most important.

*“ I encourage you to remember your purpose and the lessons you have learned during your time at Ontario Tech. Continue to push forward, one step at a time, just as you have during your years at this university. ”*

Reaching this milestone has not been without its challenges, for you and for your university. When you started this journey, who would have predicted that a tiny virus would cause so many vast adjustments in such a short space of time. Who would have thought that classes, lectures and even ceremonies like Convocation, would be experienced on-screen rather than in person? Yet, you persevered. You thought differently, adjusted and made things work, as did Ontario Tech's caring faculty and staff. That says a lot. It shows the sorts of amazing things that can happen, even under trying circumstances.

Now you reach the end of your journey and receive your degree. This moment speaks to finality, of course, but remember that a degree represents much more than just an elegant parchment: it also symbolizes your entrepreneurial skills, your flexibility to take on new challenges and your ability to adapt to technological change. It represents the sum of your efforts and the commitment of this university's faculty and staff.

As you embark on a new path, many challenges and roadblocks will inevitably arise. I encourage you to remember your purpose and the lessons you have learned during your time at Ontario Tech.

Continue to push forward, one step at a time, just as you have during your years at this university. And, remember your university is proud of you, and will always be here to support you as you do great things.

On behalf of the Board of Governors, I offer my warmest congratulations and best wishes.



Sincerely,  
Mitch Frazer  
Chancellor

### 2020 - 2021 Members of the Board of Governors

Mitch Frazer,  
Chancellor

Dietmar Reiner,  
Board Chair

Laura Elliot,  
Vice-Chair

Steven Murphy,  
President and  
Vice-Chancellor

Azzam Abu-Rayash

Liquan Cao

Kevin Chan

Stephanie Chow

Lisa Edgar

Laura Elliot

Doug Ellis

Francis Garwe

Ran Hao

Ferdinand Jones

Kori Kingsbury

Thorsten Koseck

Dale MacMillan

Maria Santos

Kim Slade

Trevin Stratton

Roger Thompson

Jim Wilson

Lynne Zucker



# MESSAGE FROM THE PRESIDENT AND VICE-CHANCELLOR

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Congratulations! You worked extremely hard to get to this day.

When I am not leading the university, I love to sail, and that sailor's perspective has proven particularly useful over the past year. Herman Melville, the great American writer wrote "...in this world, headwinds are far more prevalent than winds from astern...", and that has proven to be very true both on the water and in confronting a pandemic.

*“Today you join an exclusive community of Ontario Tech alumni, making extraordinary contributions in the workplace and in academia.”*

When COVID-19 public-health restrictions took effect we were each forced to consider how to move forward. Yet, despite those headwinds, I always had faith that you, along with our exceptional faculty and staff, would prove just how adaptive and resilient our university community can be.

And, were you ever!

You adjusted quickly to new ways of working, studying and collaborating. You confirmed yourself as an innovative thinker, ready to lead, and driven to find solutions to problems. You showed you have the knowledge and skills for career and personal success. You demonstrated your resiliency to adapt to rapid technological and social change.

You also showed how you and your colleagues can make better communities, even during a pandemic. You ran tech-device drives to support the elderly. You saw our hockey teams launch an anti-bullying program and join the Pink-Shirt Day movement. You fostered equity, diversity and inclusion during Treaties Week, Pride Month and Black History Month.

In short, you showed how we as a university work together, even when staying apart.

Today, you join an exclusive community of Ontario Tech alumni making extraordinary contributions in the workplace and in academia. I'm confident you'll experience success as you start the next chapter in your life.

On behalf of our entire university community, congratulations and best wishes. And, as the old Irish saying goes, may the wind be always at your back.



A handwritten signature in blue ink, which appears to read "Steven Murphy". The signature is fluid and cursive.

Sincerely,  
Dr. Steven Murphy  
President and Vice-Chancellor

# MESSAGE FROM THE PROVOST AND VICE-PRESIDENT, ACADEMIC

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On behalf of the university's Academic Team—the deans, professors, lecturers, lab technicians and advisors who form the heart of this university—I offer congratulations on your special graduation day. This represents one of life's most significant milestones; one of those special times that you will remember as an end, and maybe as a beginning.

Today I encourage you to reflect on the many different aspects of your Ontario Tech University experience. Those memories will remain with you, whether they are the new friendships you have made; your involvement with student clubs, societies or athletics; or your work with faculty members, as you pursued innovative projects or research.

This past year has not been an easy one yet you were flexible and responsive to new ways of learning, such as virtual classes, online tutorials, labs and meetings. You also displayed that unique spark of Ontario Tech ingenuity in your capstone projects, even as you found new ways to connect with your peers. These were challenging times but the fact that you thrived in spite of the challenges—or maybe, for some, because of them—is something that will serve you well throughout your career.

You may have your next steps figured out or perhaps they are still a work in progress. We at your university love to keep our eyes and ears open for the successes of our alumni, and today that includes you.

I invite you to stay connected with Ontario Tech through your Alumni Association and please be sure to share your future triumphs with us.

As you celebrate Convocation with those who have supported you, be as proud of your achievements as we are of you. And remember, your university will always be here to support you.

Once again congratulations on a job well done and best wishes for your future!



A handwritten signature in blue ink, which appears to read "L. Livingston".

Sincerely,  
Dr. Lori A. Livingston  
Provost and Vice-President, Academic

“ We at your university love to keep our eyes and ears open for the successes of our alumni, and today that includes you. ”



# ORDER OF PROCEEDINGS

## Processional

## Opening of Convocation

## Chancellor's Address

Mr. Mitch Frazer, Chancellor

## President's Address

Dr. Steven Murphy,  
President and Vice-Chancellor

## Conferral of the Honorary Degree

Mr. Mitch Frazer, Chancellor

## Address to the Graduands

Honorary Degree Recipient

## Conferral of Degrees

Mr. Mitch Frazer, Chancellor

## Closing of Convocation

## Receptions

# CONFERRAL OF THE DEGREE

The Convocation ceremony has its roots in ancient traditions. It is rich in academic conventions and symbols that carry special significance and meaning. In present day, these traditions are seen in the colourful academic dress and the customs that are observed throughout the ceremony, which serve to honour the achievements of the graduates and recognize their new role and obligations as members of their respective disciplines, fields of study and the alumni community. The Provost presents the degree candidates to the Chancellor, who then confers the degree.

# DISTINCTIONS

Undergraduate students who have achieved a cumulative grade point average (GPA) of 3.8 or higher for the courses required for their degree will have the words with Highest Distinction added to their degree parchment and to the degree notation on their transcript. Undergraduate students who have achieved a cumulative GPA of 3.5 to 3.79 for the courses required for their degree will have the words with Distinction added to their degree parchment and to the degree notation on their transcript.

# THE UNIVERSITY MOTTO

# COGITANDO ET AGENDO DUCEMUS

MEANS BY THINKING AND  
DOING, WE SHALL LEAD



## HONORARY DEGREES

Honorary degrees recognize persons who have made an outstanding intellectual and/or scholarly contribution in their chosen field of academic eminence; provided outstanding service and/or contributions to greater society through non-academic achievements and/or public service; or made major contributions in areas relevant to the mission of the university and/or to Durham Region/ Northumberland County.

The President selects the honorary degree recipients upon the recommendation of the Honorary Degrees Committee, following an open call for nominations that takes place in the fall of each year. This year the university will award the following honorary degrees:

### **DOCTOR OF LAWS, HONORIS CAUSA (LLD)**

Awarded for outstanding achievement in social sciences in the broadest sense, or significant community contributions at the local, national or international levels.

## HONORARY DEGREE RECIPIENTS

### **FACULTY OF BUSINESS AND INFORMATION TECHNOLOGY**

Mr. Andreas Apostolopoulos

### **FACULTY OF EDUCATION**

Ms. Noreen Taylor

### **FACULTY OF ENERGY SYSTEMS AND NUCLEAR SCIENCE**

The Right Honourable Brian Mulroney and Mrs. Mila Mulroney

### **FACULTY OF ENGINEERING AND APPLIED SCIENCE**

Dr. Mohamed Lachemi

### **FACULTY OF HEALTH SCIENCES**

Mr. Paul Ralph

### **FACULTY OF SCIENCE**

The Right Honourable Brian Mulroney and Mrs. Mila Mulroney

### **FACULTY OF SOCIAL SCIENCE AND HUMANITIES**

Ms. Tanya Talaga

## DR. MOHAMED LACHEMI

Doctor of Laws, *honoris causa*



For his lifelong service as an engineer and educator, and for his academic leadership to his province and country, the university confers proudly upon Dr. Mohamed Lachemi the honorary degree of Doctor of Laws, *honoris causa*.

Dr. Lachemi is President and Vice-Chancellor of Ryerson University, first appointed in 2016 and reappointed to a second term concluding in 2026. An internationally recognized researcher and accomplished academic administrator, he has been a key contributor to the growth and development of Ryerson over a transformational time in the university's history.

Joining Ryerson in 1998 as a Professor of Civil Engineering, Dr. Lachemi has served in progressively senior roles, including Dean of the Faculty of Engineering and Architectural Science, and Provost and Vice-President, Academic.

A graduate of L'Université des Sciences et de la Technologie d'Oran in Algeria (in Civil Engineering with distinction) and L'Université de Sherbrooke (Master of Applied Science and PhD, Structural Engineering), Dr. Lachemi worked with Concrete Canada as a Postdoctoral Fellow and Research Associate, followed by a visiting professorship at Artois University in France.

Dr. Lachemi is internationally known for his pioneering research in high-performance materials and advanced technologies to mitigate the effects of built structures on the environment. He held a Canada Research Chair in Sustainable Construction from 2002 to 2010.

An award-winning teacher and mentor, Dr. Lachemi has served as supervisor, co-supervisor or advisor for more than 70 master's and PhD students, post-doctoral fellows and research associates. Publishing in English and French, he has more than 300 peer-reviewed technical publications, book chapters and conference proceedings, and extensive contributions as an editor and technical reviewer. He has delivered more than 50 keynote addresses and invited presentations around the world.

*“ Dr. Lachemi is internationally known for his pioneering research in high-performance materials and advanced technologies to mitigate the effects of built structures on the environment. ”*

Dr. Lachemi is Chair of the Council of Ontario Universities; a Member of the National Research Council of Canada; Fellow of the Canadian Society for Civil Engineering; Fellow of the Canadian Academy of Engineering; Board member of Trillium Health Partners; and Chair of the Education Section of the Campaign Cabinet for the United Way of Greater Toronto.

Among his recent honours, he is a recipient of the LinkedIn Top Voices, Education (2019); the MAX Community Excellence Award (2018); the Watson Medal for Materials Research from the American Concrete Institute (2018); and the REH'MA Community Services Award 'New Canadian Success Story' (2015).

Friday, June 25, 2021

**Doctor of Philosophy**  
**Master of Applied Science**  
**Master of Engineering**

**Bachelor of Engineering (Honours)**  
**Bachelor of Engineering and Management (Honours)**

## **DOCTOR OF LAWS, HONORIS CAUSA**

Dr. Mohamed Lachemi

## **DOCTOR OF PHILOSOPHY, ELECTRICAL AND COMPUTER ENGINEERING**

Sami Alshareef

Thesis Title: Analysis and Mitigation of the Impacts of Integrating Fast-Charging Stations on the Voltage Fluctuations

Mellitius Okwudili Ezeme

Thesis Title: Anomaly Detection in Kernel-Level Process Events using Machine Learning-Based Context Analysis

Hanan M F A Hiba

Thesis Title: Toward Enhancing Metaheuristic Optimization Algorithms Using Center-based Sampling Strategies for Solving Single- and Multi-objective Large-scale Problems

Phuoc Sang Huynh

Thesis Title: Soft-switched, Active-clamped DC/AC and AC/AC Converters for IPT-based Wireless Charging Applications

Sharareh Kiani

Thesis Title: Power Efficient Designs for 5G Wireless Networks

Deepa Vincent

Thesis Title: Hybrid Inductive and Capacitive Wireless Power Transfer System for Future Transportation Electrification

## **DOCTOR OF PHILOSOPHY, MECHANICAL ENGINEERING**

Waleed Ahmed

Abdelfattah Ahmed

Thesis Title: Modeling and Analysis of Metal Cutting Process using Self-Propelled Rotary Tools

Mark Borg

Thesis Title: Autonomous Amphibious Robot Navigation through the Littoral Zone

Ghassan Chehade

Thesis Title: Experimental Investigation of a New Plug-In Advanced Ammonia Generator

Aida Farsi

Thesis Title: Development and Modeling of a Lab-scale Integrated Copper-Chlorine Cycle for Hydrogen Production

Zahra Sadat Fattahi Massoom

Thesis Title: Modeling and Experimental investigations of Drilling Carbon Fiber Reinforced Composites

Haris Ishaq

Thesis Title: Investigation of Integrated Systems for Clean Ammonia Synthesis  
 Outstanding Doctoral Thesis Award

Osamah Siddiqui

Thesis Title: Development and Assessment of Integrated Energy Systems with Ammonia Synthesis and Fuel Cells  
 Governor General's Academic Medal (Gold)

## **MASTER OF APPLIED SCIENCE, AUTOMOTIVE ENGINEERING**

Kyle Hyatali

Shaurya Rana

## **MASTER OF APPLIED SCIENCE, ELECTRICAL AND COMPUTER ENGINEERING**

Khiria Mabruk Amar Aldwib

Laith Basim Alkhawaldeh

Omar Ahmad Abdelkhalik Allan

Nadra Ben Otman

Yashwanth Dasari

Apoorva Vaibhav Kelkar

Daniel Jacob Mabuggwe

Zainab Maqsood

Vinicius Albanas Marcis

Mohamed Kamal Nasser

Ehsan Rokhsatyazdi

Gagandeep Sharma

Nelson Vithayathil Varghese

Bradley James Wood

## **MASTER OF APPLIED SCIENCE, MECHANICAL ENGINEERING**

Hayford Kwabena Azangbebil

Branson Chea

Yarkin Gevez

Zachary James Guy

Connor Gordon Hopkins

Mohamd Imad

Brayden Nicholas Kent

Zahra Khodabakhshi

Maciej Bartosz Lacki  
 Outstanding Master's Thesis Award

Meisam Moghareh Abed

Abdullah Rasul

Mirwais Sharifi

Xu Ting Pamela She

Mert Temiz

Brayden Timothy York



## **MASTER OF ENGINEERING, AUTOMOTIVE ENGINEERING**

Karthik Ajaykumar Katukota  
Harmanjit Kaur  
Adwait Krishnaa Murali  
Harinath Murukan  
Lovish Puri  
Rajat Rathi  
Anirudh Sridhar  
Yagneswaran Suresh

## **MASTER OF ENGINEERING, ELECTRICAL AND COMPUTER ENGINEERING**

Kriti Bagga  
Thomas Chi-Chung Li  
Omar Shoukat  
Mohammed Zaheeruddin

## **MASTER OF ENGINEERING, MECHANICAL ENGINEERING**

Neha Bagria  
Navid Hamidi  
Shreeniket Joshi  
Siva Rama Prasad  
Sandilya Nadella  
Maunil Rajeshkumar Shah  
Meet Vijaykumar Shah  
Bipandeep Singh  
Ashwin Suresh  
Arth Ashish Talati

## **BACHELOR OF ENGINEERING (HONOURS), AUTOMOTIVE ENGINEERING**

Hari Shankar Akella  
Pardaman Buttar  
Man Jing Billy Chan  
Mingyuan Chen  
Kurtis Richard Collins ★  
Hillary Chukwudumebi Elueme ★  
Igor Ferreira Rodrigues  
Helder Frizado

Myles Joseph Ginty  
Benjamin Jeffrey Hilton  
Christopher John Hrenczuk  
Mayzar Husaini  
Ahmed Nasry Ahmed Hussein  
Jaskaran Jagdev ★★  
Komayl Sayed Jawadi ★  
Benjamin Vinh Le ★★  
Fhaad Lockhat  
Tanvir Mahmud  
Diego Mari Rasco Mendoza  
Kenneth Joseph Morris  
James Lorne Alexander Nowicki  
Hao Lun Rong  
Benjamin James Sasnowski  
Paras Solanki  
Paul Szufflita

## **BACHELOR OF ENGINEERING (HONOURS), ELECTRICAL ENGINEERING**

Eric James Allan ★★  
Alhasain Abdul Alwan  
Mohammad Naveen Issa Amini  
Warren Daniel Andrade  
Ajmal Anwar  
Andrea Michelly Banguera  
Jay Hemantkumar Barot  
Amar Singh Bassi  
Kathan Bhachech  
Abhijit Biswas ★★  
Annelisa Dawn Bowry  
Ivan-Teofil Catovic  
Vithuran Cevvel  
Jonathan Chang ★★  
Lavel Chase  
Muhammad Hamza Choudhary  
Christian Dagher  
Tran Bao Dang  
Asjad Elahi  
Hailey Elizabeth Fielder ★  
Emilio Gallenero  
Alexandre Justin Gemme ★  
Jaskaran Singh Gill  
Karanvir Singh Grewal  
Mohamad Hamie  
John Paul Hanna

Syed Ali Hassan  
Joshua Shane Howorth ★★  
Faculty Medal  
Christopher Wen-Yan Hsieh ★  
Eric Yu Ting Huang  
Justin Cheuk Bun Hui  
Mustafa Hussein  
Alvin Tuan Thanh Huynh  
Bazim Iqbal ★  
Syed Saqib Iqbal Shah  
Md Shibly Sadique Islam  
Zhang Jingsong  
Thineash Croos John  
Christopher Johnson  
Balazs Gaspar Kadas ★  
Mehboob Karim  
Ahmad Mukhtar Khan  
Dmitry Kir'Yanov ★★  
Spencer George Lamash ★★  
Adam Lawrence  
Arthur J. Li  
Hui Lin  
Samson Shinn Shinq Lui  
Gary Luo  
Toby Wai-Lam Ma  
James Nathaniel Magcalas  
Jay Makhija ★★  
Brady Vernon McPhee  
Muhammad Mujtaba Moeed  
Muhammad Irtiza Moeed ★  
Olufemi Emmanuel  
Olaewaju ★★  
Dipal Jayesh Patel  
Jin Jian Qiu  
Abdullah Razi  
Michelle Karen Rodrigo  
Ali Saghir  
Elmuntasir Saied  
Maria Luisa Saquing  
Peter Andrew Sercl ★  
Ibrahim Mohamed Shaarawy  
Ali Shahbaz  
Matthew Ryan Sharpe ★★  
Anton Shchukin ★★  
Faculty Medal  
Jasraj Singh  
Peter Stadnicki ★  
Brianna May Strong ★

Rajevan Supeinthiran  
 Pravienan Suthakaran  
 Hamza Tanveer  
 Shahryar Tariq  
 Brandon Ryan Bruce Taus  
 Ryan James Taylor ★  
 Artem Sergiyovych Totsky  
 Sivangari Yogeswaran  
 Osman Yousaf ★★  
 Obaid Bin Zikria

### **BACHELOR OF ENGINEERING (HONOURS), MANUFACTURING ENGINEERING**

Maaz Ahmed Ali Khan  
 Sarah Butts  
 Kosisochockwu Egbuniwe  
 Andrew Eskedjian  
 Suyoung Kim  
 Nam Phuc Hoang Nguyen ★★  
 Clinton Chinemerem Okpara  
 Benjamin Brock Sanderson  
 Daniyal Shabbir ★  
 Usama Tabit

### **BACHELOR OF ENGINEERING (HONOURS), MECHANICAL ENGINEERING**

Ashraf Abedin  
 Hashaam Abrar  
 Adesoji Olukorede Adeniran  
 Katherine Albrecht ★★  
 Nathaniel James Alvarez  
 Abdulaziz Ibrahim Alzahrani  
 Sara Asghar  
 Joshua Eniola Ayanlowo  
 Lisa Bailey ★  
 Sirakire Barendra ★  
 Sayon Baskaran  
 Jacob Victor Bevis ★  
 Andrew Emmanuel Bondoc  
 Zachary Jordan Browning  
 Hassan Butt  
 Matthew Alexander Carpe  
 Victor Cavuoti ★★  
 Charisse Nadine Chan

Ping Hei Chau  
 Ali Ahmed Chaudhry  
 Ebuka Alexander Chukwuonwe  
 Benjamin John  
 Charles Cottrell ★★  
 Sohan Crasta  
 Dustin Curry  
 Adrian Cabiles Dinglasan  
 Michael Donahue ★  
 Cyrus Damien D’Rosario  
 Ayah El-Rahi  
 James Eng ★★  
 Ammaar Bin Farhat Ali  
 Assan Omar Farquharson  
 Jeremy Francis  
 Tommy Jay Frost  
 Ryan Ajay Gangapersad  
 Brooke Amanda Halina Godding  
 Francesco Greco  
 Brett Hall  
 Akshay Hampaul  
 Valter Karoly Hodor  
 Jason Huq  
 Nicholas Felice Iervasi  
 James Patrick Joyce  
 Karl Ferat Kanmaz ★★  
 Muarij Khalil  
 Ebhad Khan  
 Talha Ahmed Khan  
 Mehran Khosravi Babadi  
 Mayuresh B. Khot  
 Graham Kingsbury  
 Robert Jameel Klana  
 Philip Peter Krolczyk  
 Nitheesh Suresh Kumar  
 Uni Yau Ching Lee  
 Jeffrey Leung ★  
 Raul Limon Bravo  
 Teresa Ly  
 Rachel Anne Lynds  
 Peter Taras George Lysyk  
 Mitchell Maguire  
 Sarim Malik  
 Bradley James Mcardle-Rason  
 Cameron McArthur  
 Kyungoh Min  
 Mohamed Mostafa Mohamed

Sajith Mohanaruban  
 Tyler Dawson Moore  
 Atta-UI Musawar ★★  
 Antonio Nadile  
 Salahuddin Nezami  
 Michael Glen Omori ★★  
 Chimere Charles Onumaegbu  
 Princewill Ikenna Onyechie  
 Josiah Shem Paras  
 Tyler Edward David Parsons ★  
 Dev Patel  
 Yash Patel  
 Navienan Pirabaharan  
 Karolina Piskorski  
 Jaykumar Suresh Prajapati  
 Jacky Quan ★  
 Vitalii Rakultsev  
 Zayne Xavier Ramotar ★★  
 Ryan Ratcliff  
 Matthew Reynolds  
 Amena Saidzada  
 Sayeed Tamim Saidzada ★★  
 Kareem Saleh  
 Kenny Saputra  
 Kajaharan Selvarajah  
 Joshua Anthony Sequeira ★  
 Shams Aldin Shams Aldin  
 Sujenthan Shandrakumar  
 Fabio Shimabukuro  
 Olivia Shurtleff ★★  
 Dharma Emmanuel Solaiman  
 Devakesan Sreekuladevan  
 Muhammad Talha Tabish  
 David Tapp ★  
 Bradley Taylor  
 Jeffrey Arthur Thornton  
 Nicholaas Robert Vriend  
 David Vu  
 Albert Wong ★★  
 Jackie Zhen ★★  
 Sykab Suhail Zihan

### **BACHELOR OF ENGINEERING AND MANAGEMENT (HONOURS), MECHANICAL ENGINEERING**

Aaron T. Andrews

Alexander Patterson-Goncalves  
Syed Rafay Qadri

### **BACHELOR OF ENGINEERING (HONOURS), MECHATRONICS ENGINEERING**

Shiva Shankar Akella ★★  
Furkan Akram ★★  
Biokpo-Samuel Asimiea ★★  
Zhibin Bao ★★  
Vincent Chu  
Michael Scott Currie ★★  
Steve D'Souza  
Mika Francois Du Preez ★  
Janushan Elamuhilan ★  
Rafi Fadle Aziz  
Kevin Francis ★★  
Nicolas Emilio Gacitua-Araya  
Curtis George  
Muhammad Hassan  
Hudson John Hulcoop ★★  
Myles Noah Hunt  
Rachel Elizabeth Illman  
Devesh Jha  
Joshua Alexander John  
Connor Howard Jong  
Mohammad Nidal Judieh  
Maria Theresa Karam  
Harvin Kaura  
Osaffat Rahaman Khan  
Fatima Labade  
Justin Ly ★  
Katso Kgomotso Mafofenyane  
Sayed Nadeem Mahamoodally  
Evan Alexander Medri  
Lysis Mejias ★★  
Chikodili Peace  
Odinakachukwu ★★  
Jai Mitesh Patel  
Jay Patel  
Bilal Rahaman ★★  
Mehul Rana  
Joyson Sebastiampillai  
Jonathan Selvanathan  
Kushal Chirag Shah ★★  
Michael Shirvan Sookhan

Don Abraham Thomas ★★  
Veronica Madeleine Trendov  
Roshan Vijendran  
Kenneth Jordan Weber  
Douglas John Wilson  
Kieran David Wilson  
Dustin Sunny Wong  
Matthew Wong  
Tristan Joseph Anthony Zonta ★★

### **BACHELOR OF ENGINEERING (HONOURS), SOFTWARE ENGINEERING**

Abdur-Rahman Ansari  
Durreshahwar Arif  
Ibaada Arif  
Matthew William Bernard  
Matthew Kofi Adam Brown  
Darren Chan  
Armando Cuesta Leyva  
Vicki Ray Derbyshire  
Muhammad Umar Ehsan ★★  
Ayesha Farkhundah  
Omair Atiq Farooqui  
Gabriel Sam Gelgor ★★  
Harshwardhan Goswami  
Meghana Govind  
Brett Michael Hausdorf  
Mohamed Ibrahim ★★  
Emil Nick Ilnicki ★★  
Isaiah Izien Iremiren ★  
Karan Bhaveshkumar Jariwala ★  
Ladchumeharan Jeyasingam  
Rukayat Adedamo  
Adedamola Jimoh  
Preet Nipunkumar Khasakia  
Mahum Ali Khokhar  
Aryan Sanjay Kukreja ★★  
Hyon Lee ★★  
Jamieson Warren Leibovitch ★★  
Peter Thomas Christopher Levine  
Dhanushga Lionel  
Qinghao Lu  
Louis Mark  
Sohaib Mohiuddin  
Zhou Mu  
Goutham Narendiran

Ibrahim Noor Mohammed  
Daniel Joseph Nucci  
Aakash Patel ★★  
Harsh Patel  
Jay Kamleshkumar Patel  
Karan Mahendrakumar Patel ★  
Pawan Sachitkumar Patel ★★  
Christopher Phan  
Faisal Abubakar Pindar  
Umar Ilyas Qureshi  
Avdon Andrija Racki  
Priyadharshini Ramalingam  
Kavya Raman  
Thanushan Rameswaran  
Kajan Ravindran ★  
Umar Riaz  
Randell Reuben Roopsingh  
Marwa Safa  
Walid Ahmad Safi  
Ardienne Angelo Salas  
Fadi Salback  
Allan Santosh  
Sajeeva Seralathan  
Vraj Shah  
Omar Shaik  
Daniel Joseph Silva ★  
Vipooshan Sivaruban  
Nikola Soldatovic  
Owen Sebastian Stoll ★★  
Ashley Kristina Sun  
James Blesson Suresh  
Siddharth Tripathi  
Eric Sai Ga Tsim  
Kavenaa Uthayachandran  
Thien Hoang Vu  
Vidit Kamalkumar Vyas  
Shivani Rajiv Wazalwar  
Curtis Connor Whall ★  
Abdul Ghaffar  
Zainul Abedin ★★  
Weimin Zhao  
Gongmin Zhou



## FACULTY MEDALS

Faculty medals are awarded annually by each faculty to the student graduating from an undergraduate program who has achieved the highest cumulative GPA in the courses required for their degree, as approved by the dean of the faculty. To be considered, students must have completed at least half the course requirements at the university and have achieved a cumulative GPA of 3.5 or higher.

### **FACULTY OF BUSINESS AND INFORMATION TECHNOLOGY**

Nathan Albert Paul Labonte

### **FACULTY OF EDUCATION**

Desiree Johnson

### **FACULTY OF ENERGY SYSTEMS AND NUCLEAR SCIENCE**

Nicholas Adam Bourne

### **FACULTY OF ENGINEERING AND APPLIED SCIENCE**

Joshua Shane Howorth

Anton Shchukin

### **FACULTY OF HEALTH SCIENCES**

Jeffrey Chen

Kelly Elizabeth Mason

### **FACULTY OF SCIENCE**

Samira Zarin Khattak

### **FACULTY OF SOCIAL SCIENCE AND HUMANITIES**

Austin Kevin Chalmers

## OUTSTANDING THESIS AWARDS

Outstanding Thesis Awards recognize a student graduating from a thesis-based master's program and a student from a thesis-based doctoral program whose thesis has made, or is expected to make, a significant contribution to their field of study. To be considered, students must meet the following criteria:

- Cumulative GPA of 3.7 or higher.
- Received an outcome of Acceptable without Required Revisions or Acceptable with Minor Revisions at their thesis defense.
- No academic offenses on their record.

### **2021 OUTSTANDING MASTER'S THESIS AWARD RECIPIENT**

Maciej Bartosz Lacki

Thesis Title:

Analysis, Development, and Control of Multi-Degree-of-Freedom Passive Haptic Devices

Master of Applied Science, Mechanical Engineering

### **2021 OUTSTANDING DOCTORAL THESIS AWARD RECIPIENT**

Haris Ishaq

Thesis Title:

Investigation of Integrated Systems for Clean Ammonia Synthesis

Doctor of Philosophy, Mechanical Engineering



# GOVERNOR GENERAL'S ACADEMIC MEDALS

The Governor General's Academic Medal was first awarded in 1873 by the Earl of Dufferin and has since become one of the most prestigious awards a student in a Canadian educational institution can receive. The Governor General's Academic Medals are awarded for academic excellence at four levels:

- Bronze at the secondary school level.
- Collegiate bronze at the post-secondary, diploma level.
- Silver at the undergraduate level.
- Gold at the graduate level.

To maintain a spirit of universality across the country, the directives were designed to ensure the medals are awarded on academic marks only, regardless of the intangible qualities of students' lives, such as good citizenship, moral behaviour or popularity. The medal can be awarded to only one student.

## Gold Medal

The gold medal is awarded annually to the student graduating from a graduate-level program who has achieved the highest cumulative GPA for the courses required for their degree, as approved by the Admissions and Scholarship Committee. To be considered, students must have a cumulative GPA of 3.8 or higher.

## 2021 GOVERNOR GENERAL'S GOLD MEDAL RECIPIENT

**Osamah Siddiqui**

Doctor of Philosophy, Mechanical Engineering

## Silver Medal

The silver medal is awarded annually to the student graduating from an undergraduate program who has achieved the highest cumulative GPA for the courses required for their degree, as approved by the Admissions and Scholarship Committee. To be considered, students must have completed a minimum of 60 credit hours at the university and have achieved a cumulative GPA of 3.8 or higher.

## 2021 GOVERNOR GENERAL'S SILVER MEDAL RECIPIENT

**Samira Zarin Khattak**

Bachelor of Science (Honours), Biological Science

# AWARDS FOR TEACHING EXCELLENCE

The university recognizes instructors who have demonstrated excellence in teaching. These awards distinguish those who have significantly enhanced the quality of learning for students through innovation and commitment, by fostering new instructional practices and learning activities, and through engagement in the scholarship of teaching and learning.

## STUDENT CHOICE AWARD

Recognizes instructors selected by students from online course feedback and surveys. Awards were given in three categories: Teaching Assistant, Undergraduate and Graduate instructor.

## FACULTY OF BUSINESS AND INFORMATION TECHNOLOGY

**Rajinder Khurmi**, Teaching Assistant

**Joshua Lowe**, Undergraduate

**Julie Thorpe**, Graduate

## FACULTY OF EDUCATION

**Keisha Deoraj**, Teaching Assistant

**Tricia Dwyer-Kuntz**, Undergraduate

**Joseph Stokes**, Graduate

## FACULTY OF ENERGY SYSTEMS AND NUCLEAR SCIENCE

**Sarah Watt**, Teaching Assistant

**Salam Ali**, Graduate

**Rachid Machrafi**, Undergraduate

## FACULTY OF ENGINEERING AND APPLIED SCIENCE

**Anshuman Sharma**, Teaching Assistant

**Anwar Abdalbari**, Undergraduate

## FACULTY OF HEALTH SCIENCES

**Rufeyda Cosgun**, Teaching Assistant

**Syed Qadri**, Undergraduate

**Adam Dubrowski**, Graduate

## FACULTY OF SCIENCE

**John Nemec**, Teaching Assistant

**Rupinder Brar**, Undergraduate

## FACULTY OF SOCIAL SCIENCE AND HUMANITIES

**Lyndsay Woolridge**, Teaching Assistant

**Tanya Karam-Zanders**, Undergraduate

# ABOUT ONTARIO TECH UNIVERSITY

Modern and forwarding-thinking, Ontario Tech University advances the discovery and application of knowledge to accelerate economic growth, regional development and social innovation. We inspire and equip our students and graduates to make a positive impact in a tech-focused world.

We believe it's not only about developing the next tech breakthrough. Understanding and integrating the social and ethical implications of technology are our key differentiator.

We adapt to the ever-changing educational landscape by experimenting with the most effective ways to deliver flexible and dynamic learning, giving more choices to more people. By offering a range of credentials and experiential learning opportunities, and sparking entrepreneurship activities, we provide learner-centred educational options.

Our students enjoy a stimulating campus life experience that includes hundreds of clubs, cultural and community events, recreational opportunities and a growing varsity athletics program featuring basketball, badminton, curling, dance, golf, hockey, rowing, soccer, and women's lacrosse.

In addition to excellence in teaching, we offer our students experiential learning opportunities through internships, co-ops, practicums, research projects and more. In fact, 85 per cent of upper-year undergraduate students participate in experiential learning.

We collaborate with industry, community, government and academic organizations, bringing them together with our researchers and students to uncover innovative solutions for our partners' most pressing problems. The home to more than 80 specialized research laboratories and facilities, we're committed to attracting passionate and capable scholars to our high-tech campus.



***The university is proud to acknowledge the lands and people of the Mississaugas of Scugog Island First Nation, which is covered under the Williams Treaties. We are situated on the Traditional Territory of the Mississaugas, a branch of the greater Anishinaabeg Nation, which includes Algonquin, Ojibway, Odawa and Pottawatomi.***





# THE UNIVERSITY COAT OF ARMS



The Coat of Arms was granted to the university on July 15, 2009 by Claire Boudreau, Chief Herald of Canada under the authority of the Governor General of Canada. The Coat of Arms offers a graphic representation of important facets of the university, as well as its history, values and achievements.

It highlights the university's ties to the regional, national and worldwide communities from which the university draws its mission and purpose. The university reserves the use of the Coat of Arms for commemorative and ceremonial purposes.

The Coat of Arms consists of a shield, a crest, supporters and a motto. The shield, at the centre of the arms, contains three elements: an open book, a canoe and a division line.

The open book denotes an institute of higher education. The inverted canoe alludes to intellectual exploration and signifies the university's location in Oshawa, which means portage or carrying place. The division line represents energy, innovation and community.

Atop the crest a falcon perches with its head facing forward to see the world as it is and to find ways to make a difference. The falcon, a symbol of leadership and persistence, holds a thunderbolt with flames at the top and bottom. Lightning bolts crossed behind the falcon emphasize the importance of technology. Thoroughbred horses flank the shield to reference Windfields Farm, which was located directly north of the university, and famed for breeding champion racehorses. As an official symbol of Canada, the horses also represent excellence, energy and agility. They stand on a mound of grass set with trillium flowers as a reference to Ontario. The university motto, *Cogitando et Agendo Ducemus*, means by thinking and doing, we shall lead.



## THE UNIVERSITY MACE

The mace symbolizes the authority, independence and responsibility of the university as a protector, creator and facilitator of knowledge. It is carried before the President and Vice-Chancellor, and the Chancellor in the Academic Procession and rests on its stand throughout the ceremony.

The mace was unveiled at Convocation in 2007. Designed and crafted by Beth Alber, Associate Dean, Faculty of Design at OCAD University in Toronto, Ontario, it consists of a strong handle of carved cherry wood, an elegant and hardy tree native to southern Ontario. Rings of polished quartz and sodalite, in the university's colours, top the wood. The handle supports a crown of silver in the form of an abstracted flower bud, which is intended to be a reminder of our unending responsibility to nurture, protect and celebrate academic achievement among students, faculty and staff. The surfaces of the petals are etched with the microscopic imprint of a poplar leaf, as a symbol of hope and endurance. The mace is supported by a base of Belmont Rose granite from a quarry in the Kawartha Lakes region, representing the foundation of knowledge and our interdependence with the surrounding community.





# GONFALONS

The gonfalon, a flag that hangs from a crosspiece or frame, originated in the medieval republics of Italy as an ensign of state or office. Universities from around the world have adopted gonfalons and they use them during Convocation ceremonies to symbolize the different academic areas within the university. The eight gonfalons displayed at the university's Convocation ceremonies represent the university and its seven faculties. Gonfalon carriers march at the head of their faculty during the procession, followed by the students who will graduate from each of the faculties during the ceremony.



University of Ontario Institute of Technology



Faculty of Business and Information Technology



Faculty of Education



Faculty of Energy Systems and Nuclear Science



Faculty of Engineering and Applied Science



Faculty of Health Sciences



Faculty of Science



Faculty of Social Science and Humanities





## DEGREE HOOD COLOURS

- Arts
- Philosophy (PhD)
- Allied Health Sciences, Health Sciences
- Commerce, Business Administration
- Science in Nursing
- Engineering, Engineering and Management
- Applied Science, Applied Science and Management
- Science, Science and Management, Science (honoris causa)
- Information Technology, Information Technology Security
- Education
- Law (honoris causa)

## ACADEMIC REGALIA

The colourful academic dress worn in the Convocation ceremony was introduced more than 600 years ago. At the university, all graduates wear a gown, with a cap and hood. The gowns of bachelor's and master's graduates are black. The gowns of doctoral graduates are dark blue and trimmed in light blue. Mortarboards are worn by bachelor's and master's graduates, and velvet bonnets are worn by doctoral graduates. The hoods of bachelor's and master's graduates are black and the hoods of the doctoral graduates are dark blue. All degree hoods have an inside lining of royal blue as the colour of the university. The colour of the velvet trim on the hoods is distinctive of the degree that has been earned by the graduate. Graduate diploma recipients wear a black bachelor's gown.

The Chancellor and President and Vice-Chancellor wear gowns that are distinctive of the positions they hold in the university community. University governors who participate in the Convocation ceremony wear a gown and sash distinctive of the Board of Governors. University officers, faculty and staff who participate in the Convocation ceremony wear the academic dress distinctive of the institution from which they graduated and the degree they received. If the institution's colours are not available, participants will wear a black gown.





## MESSAGE FROM THE ALUMNI ASSOCIATION

Congratulations, class of 2021! You've persevered through lectures, labs, deadlines and even a global pandemic, and today, we celebrate all of your achievements. On behalf of the Alumni Association, welcome to our alumni family!

*“Convocation isn't the end of your relationship with the university; it's only the beginning.”*

Convocation isn't the end of your relationship with the university; it's only the beginning. We're committed to helping you succeed throughout your life, whether it's through alumni benefits or career development opportunities. I encourage you to visit our Alumni website ([alumni.ontariotechu.ca](http://alumni.ontariotechu.ca)) and social media channels to learn about everything available to you in your new role as #OTAlumni. From a wide variety of in-person and virtual programs

to events and other services, the Alumni Association Council and Alumni Office are here to help.

Alumni are the university's greatest ambassadors. You join our network of more than 23,500 graduates across our country and around the world. I hope you will join me in staying connected with our university and fellow alumni by sharing your experiences and accomplishments and by participating in alumni events.

Congratulations, you did it!



**William Lee**  
Faculty of Business and  
Information Technology,  
Class of 2017

Chair, Alumni  
Association Council

For an alternative format of this information, contact [marketing@ontariotechu.ca](mailto:marketing@ontariotechu.ca).

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