

# Tanya Rustogi

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## SKILLS

Computer engineering student with experience working with multiple software to run simulations and working with Fusion360 to design mechanical components. Proficient with programming in MATLAB, Python, C, C++ and Verilog.

**CAD/Design:** Autodesk Fusion360, SolidWorks, ROS      **Machining:** Lathe, Mill, Drill press

**Programming:** HTML, Python, C, C++, JavaScript, SQL, MATLAB, Verilog

Problem solving, Leadership, Organization, Adaptability, Collaboration, Innovative Thinking

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## EMPLOYMENT HISTORY

Jun 2022 - Jul 2022      **Math Mentor, University of Toronto Engineering Academy (UTEA)**  
University of Toronto, Toronto, ON  
- Guided first year engineering students knowledge needed for Calculus 1 and Linear Algebra.  
- Worked together with peers to create lesson plans and slideshows for 6 classes of about 20 students twice a week.  
- Hosted introduction to UofT Engineering seminars with question answer sessions every week along with 2-3 peers.

Jan 2020 - Jul 2021      **Teaching Instructor, Mathnasium**  
Mathnasium, Oakville, ON  
- Worked with elementary and secondary students to strengthen their skills and understanding of mathematics and taught topics using different approaches personalized to each student.  
- Lead other instructors as a floor lead to provide a holistic and filling learning experience for the student with different teaching approaches.  
- Engaged students using various creative methods to teach different topics.  
- Developed communication and collaboration skills through working with other instructors

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## EDUCATION

Sep 2021 - Present      **Bachelor of Applied Sciences and Engineering (B.A.Sc) in Computer Engineering**  
University of Toronto  
- Intended minor in Artificial Intelligence and Robotics and Mechatronics  
- Relevant Courses: Computer Programming (C and C++), Engineering Strategies and Practice

Sep 2019 - Jul 2021      **Ontario School Secondary Diploma, Richmond Hill High School**  
Graduated on the honor roll with a final average of 94%

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## EXTRA CO-CURRICULARS

Sep 2022 - Present      **DriveTest and Driverless General Member, Formula Racing**  
University of Toronto  
- Designing and simulating CAD drawings on SolidWorks of the drive test mechanism.  
- Using the machining tools to manufacture and test the drive test parts needed for the formula car.

Sep 2022 - Present      **Arm, Full-Arm, General Member, Rover Space Exploration**  
University of Toronto  
- Creating a URDF model of the rover arm and using ROS to simulate and test joints.  
- Attending weekly Saturday meetings to meet with different groups, work together and update.

Sep 2022 - Present      **Policy and Advocacy Financial Lead, Engineers Without Borders**  
University of Toronto  
- Create Microsoft Excel documents recording the financial expense of the policy advocacy sub team.  
- Attend club meetings and participate in club presentations and initiatives.

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## AWARDS, ACHIEVEMENTS, AND CERTIFICATIONS

Jan 2021 - Dec 2022      **Machining Shop Training and George Brown Machining Course**  
University of Toronto

Sep 2020 - Jun 2021      **AP Courses, CollegeBoard**  
Completed AP Physics 1, AP Calculus BC, and AP Chemistry with a score of 3.  
Received AP Scholar Award.

Sep 2019 - Jun 2021      **Specialist High Skills Major, Richmond Hill High School**  
Graduated with an SHSM Health and Wellness seal on OSSD

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## REFERENCES

References are available upon request.

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