

Samuel Tan

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EDUCATION

University of Ottawa

Bachelor of Science in Mechanical Engineering, Co-operative Program (GPA 3.67)

Ottawa, CA

Sep 2020 - Jun 2025

- Awards: Received admission scholarship totalling \$2,000
- Remote Braking Project: Managed project plan and built a 3D-printed remote braking system using SolidWorks and Arduino for a gait trainer, supporting caregivers of individuals that need mobility aid, and achieving a grade of 88.5%.
- COVID Autonomous Services Project: Managed project plan and designed an application user interface using CSS, HTML, and JavaScript for restaurateurs to create food menus and manage drone deliveries, achieving a grade of 92%.

Bayview Secondary School

Ontario Secondary School Diploma

Richmond Hill, CA

Sep 2016 - Jun 2020

- Awards: Ontario Scholar, Honour Roll for all four years.

EXPERIENCE

Housing York Inc.

Administrative Clerk

Newmarket, CA

Jul - Aug 2019

- Conducted quality improvement surveys at 30 Housing York properties across 9 municipalities and analysed responses from over 800 residents, generating insights and recommendations for the Director of Operations.

Housing York Inc.

Administrative Clerk

Newmarket, CA

Jul - Aug 2018

- Managed a database of tenant contact information and enrolled over 800 users in HYI Alerts (mass notification system), exceeding target enrollment by 5%.

Bayview Hill Titans Basketball Camp

Basketball Camp Counselor

Richmond Hill, CA

Sep 2017 - Oct 2019

- Designed and executed basketball training programs, teaching over 50 children from 5 to 13 years of age how to shoot, dribble, and defend.

EXTRACURRICULAR ACTIVITIES

University of Ottawa's Mars Rover Team

Robotic Arm Lead

Ottawa, CA

Sept 2021 - Present

- Designed an end effector using SolidWorks for a rover to be used in a simulated Martian environment, producing technical drawings for manufacturing and 3D-printed prototypes for testing.
- Managed Robotic Arm Sub-Team, hosting weekly meetings to delegate tasks and provide progress updates of the robotic arm.
- Coordinated with the Mechanical Lead and the Team Captain on how to integrate the Wrist to the End Effector and Robotic Arm, designing interface plates to combine sub-assemblies.

Bayview Bengals (High school basketball team)

Point Guard

Richmond Hill, CA

Oct 2019 - Feb 2020

- Finished top 16 out of 36 teams in the YRAA Senior Boys Playoffs

SKILLS & INTERESTS

- Work experience in CAD and 3D printing (SolidWorks, Ultimaker 2+ Connect)
- Basic knowledge of computer programming (C, JavaScript, CSS, HTML, Python, Java)
- Fluent in Microsoft Office
- Passionate basketball player and cook