

# Samuel Tan

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## EDUCATION

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### University of Ottawa

Ottawa, CA

*Bachelor of Science in Mechanical Engineering, Co-operative Program (GPA 3.67/4.00)*

Sep 2020 - Jun 2025

- Awarded admission scholarship totalling \$2,000
- Remote Braking Solution: Devised project plan and built a remote braking system for a gait trainer by using SolidWorks and Arduino, supporting caregivers of individuals with mobility needs, and achieving a grade of 89%
- Autonomous Delivery Service: Devised project plan and programmed a menu builder by using CSS, HTML, and JavaScript, achieving a grade of 92%

### Bayview Secondary School

Richmond Hill, CA

*Ontario Secondary School Diploma*

Sep 2016 - Jun 2020

- Awarded Ontario Scholar and Honour Roll for all four years

## EXPERIENCE

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### Housing York Inc.

Newmarket, CA

*Administrative Clerk*

Jul 2019 - Aug 2019

- Identified issues regarding the condition of 30 public residential properties across nine municipalities through surveys, generating and presenting quality improvement ideas to the Director of Operations
- Built a booth and facilitated on-site interviews with public housing residents, interviewing over 120 people and identifying mechanical and electrical issues

### Housing York Inc.

Newmarket, CA

*Administrative Clerk*

Jul 2018 - Aug 2018

- Devised a strategy to enroll users into a mass notification system, entering contact information of over 200 new users into a database and exceeding the target by 5%
- Generated reports to monitor enrollment progress for a mass notification system, allowing management to determine language support needs for residents at five public residential properties

### Bayview Hill Titans Basketball Camp

Richmond Hill, CA

*Basketball Camp Counselor*

Sep 2017 - Oct 2019

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

## EXTRACURRICULAR ACTIVITIES

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### University of Ottawa's Mars Rover Team

Ottawa, CA

*Robotic Arm Lead*

Jan 2022 - Present

- Oversaw the mechanical design of the robotic arm of a Mars exploration rover, coordinating weekly meetings with software engineers and mechanical designers to ensure a successful transition from design to testing

*Mechanical Designer*

Sep 2021 - Dec 2021

- Designed an end effector by using SolidWorks for a Mars exploration rover, reducing the mass of the original design by 60%

## SKILLS & INTERESTS

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- Engineering: CAD (SolidWorks), 3D printing (Ultimaker 2+ Connect), and Arduino
- Computer programming languages: C, JavaScript, Python, Java, CSS, HTML
- Microsoft Office: Word, Excel, and PowerPoint
- Passionate basketball player and cook