

Gavin Yuan

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EDUCATION

BE Civil Engineering, 2020-2022, Ryerson University, Toronto, ON, CA

BE Manufacturing Engineering 2023-2025, Ontario Tech University, Oshawa, ON, CA

SKILLS

- Onshape, Fusion360, SOLIDWORKS
 - 3D printing: FDM, SLA. Heavy tuning and various materials.
 - Machining: milling, inspection, drilling
 - Machine building: 3d printers, CNC, XY table, 8020 aluminum extrusions
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EXPERIENCE

AACE Precision – Machining Shop – Scarborough, ON, CA

Part-Time Apprentice Machinist, Nov 2022 – Ongoing

- Milling: deburring, facing, measuring, fixtures, parallel operations, finishing, inspection, with various aluminum, mild steels, stainless steels, and tool steel.

Taiga Robotics – Robot Automation Startup – Toronto, ON, CA

Part-Time Engineering Intern, Oct 2022 – Ongoing

- End of arm tool design (mechanical and pneumatic), prototyping (SLA, FDM), manufacturing and parametrization, two-part silicone casting, vacuum and compressed air tools.

Digital Fabrication Zone – Ryerson Research and Startup Incubator – Toronto, ON, CA

Undergrad Consultant, Sept 2022 – Nov 2022

- Paid advisor focused on fabrication, material use, partnerships, funding, business strategy, robotics/mechatronics, primarily worked with drone and rocket engine team.

Ahead Wind – 3D Printing Software Startup – Denver, CO, USA

Engineering Intern, July 2022 – Sept 2022

- Designed a duplex line scanner mount, established absolute coordinate system in scan images with alignment code in python, assisted in fundraising activities for seed round, designed calibration tests for computer vision detection.
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EXTRACURRICULAR

MACH – Ryerson Liquid Engine Team

Mechanical Design and Fabrication, September 2022 – September 2023

Miami Hack Week Finalist – Jan 2022 – dSilo: Mid-scale automated mushroom farm

Created a polar coordinate robot arm from a 3d printer to pick mushrooms with computer vision

Ryerson Hearthstone E-Sports – Team A

Ranked 274th in North America, Jan 2022 – Feb 2022

Ryerson Rams Robotics (R3)

PCB Design and Hardware, Nov 2021 – Feb 2022

Ryerson Engineering Concrete Toboggan Team

Structural and Mechanical Systems Design, September 2020 – February 2021