

JEFFREY WU

MECHATRONICS

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COMPUTER PROFICIENCY

CODING | 2 years experience using C++, Arduino C, Java, HTML, CSS, Python 3x, VIM, Android SDK

CAD | 3 years experience using AutoCAD, SolidWorks, Sketchup, Revit

ADOBE CC | Self-taught in Photoshop, Illustrator, Lightroom, Indesign, After-Effects, Premiere, Muse, Dreamweaver

SKILLS SUMMARY

COMMUNICATION | Strong ability to convey technical information in writing, and in speech. Fluent in English, French and Mandarin.

LEADERSHIP | Experience leading teams in the planning and execution of numerous student initiatives.

ADAPTABLE | Able and more than willing to work in changing, fast-paced environments.

EDUCATION

Candidate for Bachelors of Applied Science in Mechatronics Engineering

Expected graduation June 2022
University of Waterloo

AWARDS

PEO Ottawa Chapter Scholarship

School Board Recognition Award

Principal's Award

President's Scholarship of Distinction

EduTOX Video Challenge Winner

Subject Awards

EXPERIENCE

Present

• **FREELANCE** | Graphics Designer

Designed various print and digital graphics for local businesses. Created, marketed and contracted the production of a custom apparel line for my graduating class.

2016 - 2017

• **STUDENT COUNCIL** | President

Managed a team of 20 to plan and realise school events with record engagement rates. Ensured student voices were heard by serving as liason between the administration and student body.

2015 - 2017

• **TOOLS WITH IMPACT** | Coordinator

Founded the Tools With Impact Chapter at my school, a student-run charity that has raised over \$106,000 to support impoverished communities in self development.

PROJECTS

• **3-AXIS CAMERA STABILIZER** | 1A Final Project

Built a camera gimbal to fix the position of a smartphone camera in 3D space using the principles of PID controllers, RobotC, and LEGO NXT EV3 as a rapid-prototyping platform.

• **MOCK SURGICAL ROBOT** | Mechatronics Design Day Project

Built a gantry-like robot using servo motors, aluminium struts, 3D parts and a pneumatic piston capable of precisely inserting bones at target locations.

• **MOTORIZED BLINDS** | Personal Project

Created a system using an Arduino, stepper motors, a bluetooth module and 3D printed sprockets to remotely control roller inaccessible roller blind mechanism.

• **BLUETOOTH DOOR LOCK** | Personal Project

Built a deadbolt attachment controllable via an Android app using an Arduino, servo motors and a bluetooth module.

INTERESTS

Volleyball | Martial Arts | Weightlifting | Photography | Opera