Austin **Luu**

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TECHNICAL SKILLS

Programming Languages JavaScript, Java, C, MATLAB
Tools and Frameworks HTML, CSS, React, Node.js/Express, Git, Android Studio, OpenCV, jQuery
Software SolidWorks, AutoCAD, Microsoft Office, Adobe Photoshop

EXPERIENCE

Ryerson Rams Robotics *Toronto, ON, Canada*
Mechanical Lead *Sep. 2016 — Present*
- Led a team of 10 in designing and developing a robot capable of expanding 150cm in height, repetitive lifting of 10lb, and omni-directional drive; winning a spot in the international VEXU 2018 competition
- Project management for a team of 35+ in developing a robot for the VEXU 2019 competition to place 1st nationally
- Implemented evaluation and development efforts of technical enhancements and modifications to existing design, increasing product performance and failure reduction by over 50%

Home Staging by K *Brampton, ON, Canada*
Lead Web Developer *Sep. 2016 — Present*
- Lead planning, design, and implementation of new and existing web services, websites and applications; including a online report pipeline and a user-friendly front-end with JavaScript, CSS, HTML, using WordPress CMS
- Applied evaluation and development efforts of technical enhancements and modifications; defined, scoped and documented requirements for new websites and web services leading to 20% increased user pool

Megamind Abacus *Brampton, ON, Canada*
STEM Tutor *Mar. 2017 — Oct. 2017*
- Provided educational guidance to classes of 3+, increasing academic performance of students by up to 20%
- Designed personalized educational curricula for 40+ individuals, promoting student's study methods and needs

PROJECTS

Bionic Arm
Team Project @ Ryerson Rams Robotics
- Designed and developed a prosthetic arm offering 19 degrees of freedom using arduino mega, C, and 3D printing
- Implemented a budget design to further the field of bio-mechanics in hope of making prosthetics more accessible and versatile

Parallel Computing Drone Swarm
Team Project @ PennApps Hackathon
- Developed a hazard detection 2D mapping software which collects; thermal, moisture, and relative location data from two autonomous IoT enabled ground drones
- Developed with: Python, C/C++, MQTT Protocol, laser cutting, 3D printing, and arduino 101s

Greeco
https://greeco.tech/
- Designed and developed a web application that allows users to rate locations and create a visual 'cleanliness' overlay of their local surroundings by using HTML, CSS, JavaScript, Python, Django, SQlite, and Google Maps API
- A crowd sourced approach to raise awareness in local communities, identify problematic areas, and organize cleanup events

EDUCATION

Ryerson University *Toronto, ON, Canada*
B.Eng in Mechanical Engineering *Sep. 2016 — Present*
- CGPA: 3.86 | Dean's Honour List.
- Received Mechanical Engineering First Year Alumni Award upon recommendation and outstanding academic performance
- Relevant Courses: Digital Computation and Programming, Linear Algebra, Calculus I/II, Statistics, and Electric Circuits