

# Austin Luu

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| 🏠 <https://austintoasteh.github.io/>

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## EDUCATION

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### 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: Material Science Fundamentals, Introduction to Engineering Design, Statics and Mechanics of Materials, Manufacturing Fundamentals, and Basic Thermodynamics.

## EXPERIENCE

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### Ryerson Rams Robotics

Toronto, ON, Canada

MECHANICAL LEAD

Sep. 2016 — Present

- Lead a design team of 10 in designing and developing a robot towards winning a spot in the international VEXU 2018 competition.
- Project manage a team of 35+ in designing a robot for the VEVU 2019 competition.
- Lead evaluation and development efforts of technical enhancements and modifications to existing design.
- Develop and maintain relationship with sponsors and key individuals in the community.

### 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 with JavaScript, CSS, HTML, using WordPress CMS.
- Lead evaluation and development efforts of technical enhancements and modifications; defined, scoped and documented requirements for new websites' and web services'.

### 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

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### Bionic Arm

TEAM PROJECT @ RYERSON RAMS ROBOTICS

- Design and developed a prosthetic arm offering 19 degrees of freedom using arduino mega, C, laser cutting, and 3D printing.
- A budget design approach to further the field of bio-mechanics in hope of making prosthetics more accessible and versatile.

### Parallel Computing Drone Swarm

TEAM PROJECT @ PENNAPPS HACKATHON

- Design and developed a 2D mapping software using Python, C/C++, MQTT Protocol, laser cutting, 3D printing, and arduino 101s.
- A hazard oriented 2D IoT mapping software formed from ground drones to aid hazard awareness and resolvment.

### Greeco

[HTTPS://GREECO.TECH/](https://greeco.tech/)

- Design 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 to identify problematic areas and organize cleanup events.

## Technical Skills

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**Programming Languages** HTML, CSS, JavaScript, Java, C, MATLAB

**Tool and Frameworks** Git, Node.js, Android Studio, OpenCV, Express, React, jQuery

**Software** SolidWorks, AutoCAD, Microsoft Office, Adobe Photoshop