Eric Lu

6479980903 | ericlu.lu@mail.utoronto.ca
WeChat: gdsyzx091627 | www.linkedin.com/in/ eric-cheng-lu-479500128
Seeking research opportunities related to sensing technologies, HCI, Ubiquitous Computing

EDUCATION

University of Toronto Sep 2019 - Jan 2021

Computer Science Master of Science, Toronto

Master research project supervised by Professor Khai N. TRUONG

University of Toronto Sep 2013 - May 2019

Aerospace Engineering, Bachelor of Applied Science, Division of Engineering Science Toronto

Honors/Awards: Graduation with honours (2019), Undergraduate Student Research Award (2017), Dean's Honour List (2015-Fall, 2016-Fall, 2017-Fall)

RESEARCH/PROFESSIONAL EXPERIENCE

The Dynamic Graphics Project Lab May 2018 - Sep 2019

Research Intern Toronto

- Publication - As a co-author I published *The Government's Dividend: Complex Perceptions of Social Media Misinformation in China* to CHI 2020 (conditionally accepted). In this work, we looked into the intertwining factors that shaped the complex social environment in China.
- Eye Movement Sensing Project - Completed thesis project *Exploring an Eye Tracking Technique for Activity Recognition and Interaction Design* under Professor Khai N. TRUONG. For this project, I built different prototypes to test the viability of using acoustic sensing, pressure sensing and electrooculography for eye movement tracking.
- Location Sensing Project - Explored the usefulness of item-finding technologies for finding physical objects in indoor environments. In particular, I studied the effectiveness of acoustic sensing technologies by building/testing prototypes and running user studies. In the end, I proposed improvements informing future design from a user-centered perspective.
- Mobile Sensing Project - Currently working on a mobile sensing project for physical activity recognition. Collected multimodal sensor data using smartphones and smart watches. We attempt to understand and infer user's day-to-day activities from collected sensor data by applying machine learning techniques.

University of Toronto Institute for Aerospace Studies (UTIAS) May 2017 - Sep 2017

Research Intern The Flight Systems and Control Lab (FSC Lab) North York

- Research Project - Took part in research projects on unmanned aerial vehicle (UAV) formation and motion planning. In particular I looked into *Optimal Motion Planning of Multi-UAV System for Artistic Pattern Formation,* under supervision of Professor Hugh Liu.
- Software Development - Developed UAV motion planning algorithms for Arrowonics, a start-up company that grew out of FSC Lab of UTIAS. Contributed a significant amount of code to *Canada 150 Drone Light Show* (sponsored by Zomaron Canada).

Greenfield South Power Corporation May 2016 - May 2017

Engineering Intern Division of Mechanical Engineering Toronto

- Joined the company's management team. Responsible for engineering design and coordinating between different divisions.
- For engineering design work, I was specifically in charge of drawing and analyzing Piping and Instrumentation diagrams (PID diagrams) and maintaining equipment.
- For management work, I assisted senior engineers in purchasing, coordinating construction work, and supervising construction quality.

SKILLS, CERTIFICATIONS & OTHERS

- **Skills:** MATLAB (proficient), Processing 3 (proficient), Microsoft Suite (proficient), Android Development (intermediate), Java (intermediate), AutoCad (intermediate), Python 3 (novice), Web Development (novice)
- **Languages:** Mandarin (mother tone), English (proficient)
- **Machine Learning Frameworks:** PyTorch (Proficient), scikit-learn (Proficient)
- **Activities:** University of Toronto Table Tennis Club, University of Toronto Aerospace Team,Taekwondo (green belt)