Hao Ju
MASTER'S STUDENT

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Education

Department of Information Studies, McGill University *Montreal, Canada*

MISt in Information Studies *Sept 2019 - Exp. May 2021*
- Supervised by Dr. Karyn Moffatt (http://act.mcgill.ca/karyn/)

School of Electronic Engineering, Univ of Electronic Sci & Tech of China (985,211) *Chengdu, P.R.China*

B.Eng. In Electronic Information *Sept. 2014 - July 2018*
- GPA: 3.86/4.0 (Final year 3.91/4.0), Ranking: 5/42 (Final year 3/42)
- Honorary Graduate of UESTC

Employment

Research Assistant *Hong Kong, P.R.China*

School of Creative Media, City University of Hong Kong *Sept. 2018 - May 2019*
- Provided technical support in Arduino programming and circuit design for other PhD students.
- Designed and developed hardware and firmware prototypes based on Arduino and C, e.g. musical building blocks introducing programming languages, thermal display systems for geographical education, etc.
- Co-designed user study experiments.

Research Intern *Montreal, Canada*

Shared Reality Lab, McGill University *July 2017 - Oct. 2017*
- Developed the hardware and firmware of a foot-based interactive system based on Arduino and C. Co-designed the menu layout in Unity using C#. Co-designed and conducted qualitative & quantitative usability study through interviews & NASA-TLX questionnaires. Published at ACM DIS'18 conference.
- Enhanced the performance of an existing prototype generating burning-hot illusion with Electro-Muscular Stimulation. Improved temperature detection accuracy by 37.5% by re-designing the system, switching from thermal variable resistors to digital sensors.

Production Management Intern *Shenzhen, P.R.China*

Siglent Technologies *Aug. 2016*
- Co-managed the production and quality control process on the assembly line with full-time employees at the leading Chinese oscilloscope manufacturer.

Core Member, Technical Volunteer *Chengdu, P.R.China*

Technology Association for School of Electronic Engineering *Oct. 2014 - Dec. 2015*
- Provided technical support and hosted weekly workshops on embedded system programming in C and VHDL for undergrad students.

Publications

Pressure or Movement? Usability of Multi-Functional Foot-Based Interfaces

Second Author *Sept. 2017*
- Taeyong Kim, Hao Ju, and Jeremy Cooperstock. 2018. In proceedings of ACM SIGCHI Conference on Designing Interactive Systems (DIS) 2018. ACM. 1219-1227.

A Data-Driven XGBoost-Based Filter for Target Tracking

Fourth Author *July 2018*
- Bowen Zhai, Wei Yi, Ming Li, Hao Ju, and Lingjiang Kong. Poster presentation in IET Radar Conference 2018.

Honors and Awards

Ethelwyn Crossley Memorial Scholarship, CAD 4,620	*May 2019*
Mitacs Globalink Graduate Fellowship, CAD 15,000	*Mar 2019*
National Internet Security Scholarship, CNY 30,000 (CAD 5,680)	*Aug. 2017*
'Internet Plus' Innovation & Entrepreneurship Competition, Provincial Second Prize	*July 2017*
National College Student 'Smarter Connected' System Innovation Competition, Second Prize of SW China	*July 2016*
2016 COMAP Interdisciplinary Contest In Modeling, Honorable Mention	*Apr. 2016*

Relevant Skills

Programming	C, C#, MATLAB, Python, VHDL, LaTeX
Tools	Altium Designer, Quartus II, VICON, Unity 3D, AutoCAD
Embedded Systems	Arduino, STM32, MCS 8051
Languages	Mandarin (native), English (fluent, IELTS 8.0), French (basic, CEFR A1, certified by Alliance Française)