

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 & troubleshooting 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 circuit design and 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

July 2016

Prize of SW China

2016 COMAP Interdisciplinary Contest In Modeling, Honorable Mention

Apr. 2016

Relevant Skills

Programming

C, C#, MATLAB, Python, VHDL, JavaScript, HTML, 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)