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Skillsets

Programming MATLAB, C, Python, VHDL, JavaScript, C#, HTML, Java

Tools Altium Designer, Quartus, Simulink, SPSS, VICON, Unity 3D, AutoCAD, Adobe Illustrator, Figma

Embedded Systems Arduino, STM32, MCS 8051, Xlinx Virtex

Courses Data Structure & Algorithms, Data Mining, Information Systems Design

Languages Mandarin (native), English (fluent, IELTS 8.0), French (basic)

Education

Department of Information Studies, McGill University

Montreal, Canada

MIST IN INFORMATION STUDIES, RESEARCH-BASED

Sept 2019 - Exp. May 2021

• GPA: 3.73/4.0

· Area of specialization: Human Computer Interaction; Accessibility & User Experience; Wearable Devices

School of Electronic Engineering, Univ of Electronic Sci & Tech of China (985,211)

Chengdu, P.R.China Sept. 2014 - July 2018

B.Eng. In Electrical and Computer Engineering

• GPA: 3.86/4.0 (Final year 3.91/4.0), Ranking: 5/42 (Final year 3/42)

• Honorary Graduate of UESTC

Selected Experiences .

RESEARCH & DEVELOPMENT

Research Assistant Montreal, Canada

DEPARTMENT OF INFORMATION STUDIES, McGILL UNIVERSITY

Sept. 2019 - Present

· Supervisor: Prof. Karyn Moffatt

Designing and developing a wearable limb-based input system for older adults, based on Raspberry Pi and Java. A study on the difference
between interaction habits and performances among older adults and their younger peers is to be performed.

Research Assistant Hong Kong, P.R.China

SCHOOL OF CREATIVE MEDIA, CITY UNIVERSITY OF HONG KONG

Sept. 2018 - May 2019

• Supervisor: Prof. Kening Zhu

· Provided technical support in Arduino programming and circuit design & troubleshooting for other PhD students.

- Designed and developed hardware and firmware prototypes for visually challenged schoolchildren based on Arduino and C, e.g. musical building blocks introducing programming languages, thermal display systems for geographical education, etc.
- · Co-designed and co-conducted user study experiments.

Research Intern Montreal, Canada

SHARED REALITY LAB, McGILL UNIVERSITY

July 2017 - Oct. 2017

- Supervisor: Prof. Jeremy Cooperstock
- Developed the hardware and firmware of a foot-based interactive system based on Arduino, C, and VICON. 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 & QUALITY CONTROL

Production Management Intern

Shenzhen, P.R.China

SIGLENT TECHNOLOGIES

Aug. 2016

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

OUTREACH & LEADERSHIP

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

Publications

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

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. doi: 10.1145/3196709.3196759

A Data-Driven XGBoost-Based Filter for Target Tracking

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 Dive Innevention & Entrepreneurable Competition Draving

July 2017

'Internet Plus' Innovation & Entrepreneurship Competition, Provincial Second Prize National College Student 'Smarter Connected' System Innovation Competition, Second

July 2016

Prize of Southwest China

Apr. 2016

2016 COMAP Interdisciplinary Contest In Modeling, Honorable Mention

MAY 15, 2020 HAO JU · CURRICULUM VITAE 1