Muchen He

UBC Electrical Engineering Undergraduate (Co-op Program)

Contact

Personal

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Co-op Office

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Attributes

May 2020 anticipated date of graduation

5 out of 8 academic terms completed

1 out of 5 work terms completed

Available for 4, 8, 12, or 16 months

Starting May 2018

Technical Skills

Programming

C, C++, JavaScript, HTML/CSS (Bootstrap), GLSL, Python, Processing, System Verilog, 8051 Assembly Hands-on
3D Printing, CNC
Machining,
Soldering, SMT
Reflow,

Oscilloscope

Software
Altera Quartus and ModelSim,
Autodesk Suite,
Solidworks, Adobe
Suite

Technical Work Experience

Vital Mechanics Research Inc.

Muchen :: Resume

Software Developer (Co-op) (May-September 2017)

- Developed applications using QT (GUI Framework), C++, and JavaScript; developed Model-View-Controller software structure
- Programmed realistic and interactive 3D viewers using OpenGL and WebGL

University of Alberta

Software Intern (June-August 2014)

- Developed Android tablet game in Java and Android SDK
 - Implemented features including haptic, visual, and audio feedback
 - Presented talk on project specifications, goals, and experiences

Technical Projects

Sleep Logger Webapp

September 2017 Uses realtime database and authentication to keep track of sleep statistics CircuitDraw Webapp August 2017 Circuit drawing app with ability

app with ability to save and reload circuits via JSON fo

Magnetic Game with Field Custom Tracking Serial Robot Controller

April 2017 Microcontroller robot car that follows a wire that carries PWM signal;

Custom
Serial
Controller
April 2016
DIY game
controller with
microcontroller
that
communicates
via serial to a 3D
game

programed in Processing

For more projects and details, go to www.muchen.ca/projects

Professional Affiliations

APEGBC - IMAPS IEEE - Student Member

Awards

Dean's Honors List	2016
CTS Design Studies Best Student Award	2015
Provincial Skills Canada Mechanical CADD Competition 2nd	2015
Place	2012-
Honors Student Award	2015
Alexander Rutherford Scholarship	2015

Hobbies + Activities

DIY Electronics | RC | Web Development | Programming | Microcontroller |
CAD Practices | Photography | Graphic Design |

https://www.muchen.ca/resume/