



GULI MENG

Mechatronics Engineering

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Skills

Programming Languages



- C/C++, Python, Java
- SQLite, MySQL
- HTML, JavaScript, CSS
- Ruby, Bash, Verilog, Assembly

Software and Tools



- Git, SVN
- Visual Studio
- Keil, IAR
- LabVIEW
- Microsoft Office Suite
- Cadence (OrCAD, Allegro)

Operating System



- Windows and Linux

Relavant Courses

- Principle of Programming
- Software Development
- Scientific Computation and Mathematical Simulation
- Real-Time Systems and Control Applications
- Machine-Level Computer Programming
- Computer Networks and Computer Security
- Software Requirements and Security Considerations

Work experience

Jan 2015 -
Apr 2017

Physics Teaching Assistant
McMaster University

- Teach tutorials and prepare lessons on example problems
- Guide students through labs
- Invigilate examinations
- Mark lab reports and tests

May 2015 -
Aug 2016

Electrical Engineering Intern
Flex

- Troubleshoot and debug firmware during each build on developing products
- Experience with embedded software development and ARM Cortex-M processors

Sept 2012 -
Sept 2014

McMaster Hospitality Services
East Meets West Bistro

- Communication within the team to maintain efficiency
- Food preparation, equipment set-up, customer service

Projects

2017 -
Present

Personal Website
Skills: HTML/CSS/JavaScript

- Create a personal website based on a template
- Self-learning to write web pages and web applications

2016 - 2017

Mechatronics 4TB6 - Capstone
Skills: Python, OpenCV

- *ForSight* is a wearable prototype that is designed to be worn by visually impaired patients in an indoor environment for navigation.
- Use OpenCV and machine learning to implement obstacle detection

2014 - 2015

Mechatronics 3TA4 - Embedded Systems
Skills: C, Software documentation

- Interfacing to digital and analog systems, sensors and actuators.
- Signals and conditioning: data acquisition, active and passive filtering, optical and analog isolation, PWM, de/multiplexing.
- Architecture of micro-controllers and DSP.
- Embedded system design and documentation.

2013 - 2014

Software 3K04 - Software Development
Skills: C++, Software verification and testing

- Methods of verifying and testing software
- Guide a virtual robot to navigate in a maze

Education

2011 - 2017

B.Eng - Mechatronics Engineering and Management, Co-op
McMaster University

- Named to the Dean's Honour List
- Recognition for academic excellence in the final year by achieving a 10.6 GPA on the 12-point scale