Helena Ye

Mechatronics Engineering level III

◎Mechatronics Engineering Level III student
◎Co-op experience in 2017 summer
◎Awarded The University(Senate) Scholarships 2017-2018 in first and second year
◎Currently in McMaster Engineering EcoCAR 3 Team
◎Have done data acquisition project using Matlab

Personal Info

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1997-04-29

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Skills

Familiarity with **computer architecture and bash script**(Unix shell)

Experience with **Object-oriented Design and programming**

Experience with **Verilog HDL**

Experience with **Matlab, Simulink, Labview** and **C code using Eclipse IDE**

Knowledge of **software development life cycle** such as Agile Development Life Cycle

C coding in Microcontroller STM32F429 with **microprocessor** ARM Cortex-M4

Knowledge of **Python**

Proved understanding of electric components

Experience with electric circuit design software(Multisim)

Programming in Arduino

Experience

2017-05 - 2017-08

Programmable Logic Controller Team member(**Co-op student**)

Pureach Tech

◎helped the team with the programming of Programmable Logic Controller
◎helped to select the right types of Programmable Logic Controller used in the control system of devices

2017-09 - present

Advanced Driver Assistance System Subteam member

McMaster Engineering EcoCAR 3 Team

Accomplished a **data acquisition project** independently **using Image Processing Techniques in Matlab** which

◎**detects vehicles and pedestrians** in the video taken from a pair of stereo cameras
◎Extract the Region of Interest of the vehicles and pedestrians
◎extract their distance respectively
◎**automatically stores** the distance, the time as well as other parameters into an excel file

2017-02 - 2017-03

The Analog-to-Digital Converter project

The Analog-to-Digital converter is to convert the analog input into digital values and display it on the screen.

◎designed the electric circuit **using Multisim** (which is an industry-standard circuit design and simulation software)
◎tested the circuit in simulation
◎**Successfully finished the implementation** of the circuit in real life

2017-03 - 2017-04

McMaster Sumobot Competition

◎**Leader of one of the Top 8 teams in McMaster Sumobot Competition**
◎**Designed the software of the autonomous combat robot**
◎Participated in building the electric circuit
◎**Familiar with various electric components and their working principles**

Education

2015-09 - present

Mechatronics Engineering Level III(Co-op) in McMaster University

◎Combination of courses from software engineering, electrical engineering and a bit of Mechanical Engineering.
◎mostly focuses on software programming courses in microcontrollers (STM32), signals and systems as well as electric circuit design