Zein Hajj-Ali

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Objective

I am passionate about working in a field in which I have the capacity to truly make a difference in the world. I am always reading and learning about new subjects and technologies and can quickly pick up any other skills that may be needed.

Education

BACHELOR OF ENGINEERING – COMPUTER SYSTEMS ENGINEERING
CARLETON UNIVERSITY | OTTAWA, ON | 2015-2019

· Expected to graduate December 2019
· Currently 4th year status

Skills & Abilities

TECHNICAL SKILLS

· Proficient: Java, C/C++, Python, Git, Arduino, Raspberry Pi, Real-time systems, Software design patterns, Data Structures, Microprocessor systems, Technical writing
· Intermediate: FPGA, , microcontrollers, NodeMCU (ESP8266), x86 assembly, ARM assembly, Bash

LEADERSHIP SKILLS

· Leader of 4th year Computer Systems Design Lab project group
· Led high school's robotics team to second place in the region's Botball competition in senior year.
· Head of scout troop with The Scout Association.
  • Participated in many events to do with environmental consciousness and charity drives.
  • Helped with setting the world record for most clothes donated in 24 hours.

Projects

TEAM MEMBER | NORTHERN NOMAD SYSTEMS DEVELOPMENT & INTEGRATION
CARLETON UNIVERSITY | OTTAWA, ON | SEP 2018 - MAR 2019

· Github repo: COMING SOON
· Tested Raspberry Pi and built Python scripts
· Preformed research on Northern Nomad and associated technologies
· Designed multiplexing system for analog sensor reading prototype

TEAM MEMBER | SELF-BALANCING ARDUINO BASED ROBOT
CARLETON UNIVERSITY | OTTAWA, ON | JAN 2018 - MAR 2019

· Github repo: https://github.com/ZeinHajjAli/4805-selfBalancingRobot
· Worked on self-balancing algorithm and framework
· Assigned tasks to team members and managed project timeline
· Built and preformed unit tests and final tests

TEAM MEMBER | THE CONNECTED MIRROR
CARLETON UNIVERISTY | OTTAWA, ON | OCT 2017 - DEC 2017

· Github repo: https://github.com/ConnorMacKenzie/theConnectedMirror
· Set up Raspberry Pi for control and GUI
· Set up Arduino for proximity sensors and lighting
· Built GUI and helped put project pieces together