Zein Hajj-Ali

Ottawa, ON | +1 (514)-814-4665 | zeinhajjali@outlook.com | zeinhajjali.com

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, 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

- Final Report: https://zeinhajjali.com/media/NNSI/ZeinHajjAli-NNSI-FinalReport.pdf
- 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