Zein Hajj-Ali

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Career Summary

Student at Carleton University with a record of academic success. Proven project manager with skills transferable to working within a team. Proficient in a range of modern technologies and a quick learner.

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 in Java, C/C++, Python, Git, Arduino, Raspberry Pi, Real-time systems, Software design patterns, Data Structures, Microprocessor systems, Technical writing

Intermediate with experience in FPGA, microcontrollers, NodeMCU, x86 assembly, ARM assembly, Bash

LEADERSHIP SKILLS

Leader of 4th year Computer Systems Design Lab project group

Headed high school's robotics team to second place in the region's Botball competition in senior year.

Directed scout troop to complete many environmental events and charity drives.

Projects

PROJECT LEADER | SELF-BALANCING ARDUINO BASED ROBOT

CARLETON UNIVERSITY | OTTAWA, ON | JAN 2018 - MAR 2019

Github repo: https://github.com/ZeinHajjAli/4805-selfBalancingRobot

· Coordinated team members and enforced the project timeline

· Implemented self-balancing algorithm and framework

· Designed and demonstrated unit tests and final tests

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

· Compiled comprehensive research on Northern Nomad and associated technologies

· Engineered tests for Raspberry Pi and Python based installed systems

· Delivered working prototype of multiplexing system for analog sensor readings

OWNER/WEBMASTER | MISCELLANEOUS PROJECTS AND CHALLENGES

ZeinHajjAli.com | STARTED JAN 2018

Github Profile: https://github.com/ZeinHajjAli

· Launched website to display and explain my projects hosted on Github

TEAM MEMBER | THE CONNECTED MIRROR

CARLETON UNIVERISTY | OTTAWA, ON | OCT 2017 - DEC 2017

Github repo: https://github.com/ConnorMacKenzie/theConnectedMirror

· Implemented Raspberry Pi for system and GUI control

· Incorporated an Arduino system for controlling proximity sensors and lighting

· Built GUI and assisted in attaining the targeted system requirements