FARES ISSA

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OBJECTIVE

As a new graduate in computer engineering at the University of Guelph, I am looking for an opportunity to showcase my technical, analytical and interpersonal skills. Furthermore, I would like to gain real world experience in an evolving field that I am passionate about.

SKILLS

Languages: C/C++, Python, Java, VHDL
Tools: Microsoft Office, Git, MATLAB, Simulink, LabVIEW, Android Studio, Xilinx, SolidWorks
Embedded Technologies: I2C, SPI, TCP/IP, WiFi/serial, MicroC/OS-III, FreeRTOS, ARM Cortex
Other: MacOS, Linux, Windows, Strong verbal and written communication skills, exceptional problem-solving skills, result oriented, proven teamwork and collaborative skills, strong understanding of the agile design processes (SCRUM, XP)

PROJECTS

Pressure Temperature Cycling (PTC) Test Bench   **Sep 2019 – April 2020**
- Proposed and designed an automated hose validation system for the Bend-All Automotive Engineering Department using *SolidWorks* for chassis design, and *LabVIEW* for system control and feedback loops
- Complied with standardized testing specification created by General Motors to effectively validate parts
- Economic Benefit: Save $12,000-$14,000 CAD per part validation following the first four (overhead costs)

Embedded RTOS Controller   **Dec 2019**
- Implemented a real-time UC/OS based controller to control a hot air plant using *FreeRTOS* in *C++*
- Performed analysis via open/closed loop PID tuning, step response and modelled the plant using *LabView*

HackHarvard: IntervYOU (https://devpost.com/software/hackharvard2019-intervyou)   **Oct 2019**
- Designed an interview simulator that analyzes speech patterns as part of Harvard's HackHarvard 2019 Hackathon
- Implemented speech to text and language processing technologies using Google Cloud API's through the use of *Python*, used *HTML/CSS* for the front-end design of the website, and *Flask* for site back-end

Home Heating Helper   **Sep – Dec 2019**
- Mobile web application that displays live reading and adjusts the temperature in a desired room using ESP32 wireless microcontroller to send data to local server via *WiFi protocols (IEEE 802.11)*

Hackville: Tag Along (https://devpost.com/software/tag-along)   **Feb 2019**
- Developed a *Java* based Android application which elderly users can interact with in an effort to reduce the effects of social isolation as part of Sheridan's Hackville 2019 Hackathon
- Presented the idea and design to a panel of judges. Received 2nd overall pitch/idea and Best User Experience Award

WORK EXPERIENCE / EXTRA-CURRICULAR

Engineering Society | Guelph, ON | Computer Engineering Senior Representative   **Sep 2018 – Apr 2020**
- Liaison between the engineering student body, staff, faculty and administrators at the University of Guelph
- Planned various extracurricular activities for student body including: Graduation and the Iron Ring Ceremonies

American Eagle | Guelph, ON | Sales Associate   **Aug 2017 – Apr 2018**
- Enforced developed sales techniques to drive store goals and assist customers in a professional manner

Sheridan Nurseries | Mississauga, ON | PSC Sales Associate (Summer)   **May 2016 – Aug 2018**
- Demonstrated strong interpersonal and communication skills through professional customer service

EDUCATION

Bachelor of Engineering in Computer Engineering   **Sep 2015 – Apr 2020**
University of Guelph, Guelph ON
- Dean's List Fall 2019, Dean's List Winter 2020
- Received the University of Guelph entrance Scholarship by graduating with the Ontario Scholar Award
- *Relevant Courses: Data Structures, Object Oriented Programming, Large Scale Software Architecture Engineering, Wireless Sensor Networks, Real-time Systems Design, Micro and Nano-Scale Electronics, Communication Systems, Microcomputer Interfacing, Systems and Control Theory*