

FARES ISSA

Computer Engineering | Fourth Year

✉ issaf@uoguelph.ca

in faresissa

🔗 faresissa

🌐 faresissa.com

☎ (905) 510-5654

📍 Toronto, ON

SKILLS SUMMARY

- **Languages:** C/C++, C#, Java, VHDL, Assembly, Python, MATLAB, Bash, CSS, HTML5
- **Frameworks/Other:** Xilinx, Vivado, Git, Photoshop, AutoCAD, MATLAB, MS Office, SolidWorks, Linux/UNIX
- **Hardware:** Nexys 3 FPGA, Kinetis K60 MCU, Arduino Uno, Raspberry Pi, Zed Board, IoT

PROJECTS

Tag Along ([Link](#))

Feb. 8-10, 2019

- Developed a social media platform where users can create and share as part of the Hackville 2019 challenge
- Designed all AR interactions using Unity and stored user data on the Google Cloud API using **C#**
- Received Best User Experience, 2nd Place Overall, and Social Isolation 2nd Place awards

Portfolio Website ([faresissa.com](#))

Nov. 2018 – Present

- Created and launched an online portfolio using **HTML5/CSS** hosted on GitHub Pages
- Reduced project completion time by **15%** by creating stylesheets using the **SASS** (SCSS) Framework

Relative Age Effect in the NHL ([Link](#))

Jan. - April 2017

- Proved the relative age effect in the NHL by creating a predictive model in **Python**
- Produced results within **98.3% accuracy** by using machine learning techniques (Supervised Decision Tree)
- Analyzed and parsed hundreds of real-world data entries which served as the basis for this model

Engineering Design Challenge

Jan. - April 2016

- Lead a team to build a functional **autonomous** vehicle prototype through the engineering design process
- Designed the vehicle components using **SolidWorks** accompanied by weight/stability analysis to ensure design is stable upright at 45°
- Interfaced the chassis with the motor and circuit (H-Bridge), then programmed driver and launch functions in **C++** using the Arduino IDE.
- Exhaustively tested to ensure safety, efficiency and accuracy of the device

WORK EXPERIENCE

Tutor - Freelance

Jan. 2018 - Present

- Teaching the fundamentals of Grade 12 calculus

PSC Sales Associate - Sheridan Nurseries, Mississauga

May 2016 - Aug. 2018

- Demonstrated communication skills through professional customer service and teamwork through daily tasks
- Third among all employees in add-on sales during summer 2018.

Cashier - Winners, Oakville

Jan. 2013 - Sept. 2015

- Reduced losses worth \$450.00 by demonstrating precise attention to detail. Received TJX Loss Prevention Recovery Award (2015)

EDUCATION & AFFILIATIONS

Bachelor of Engineering Degree in Computer Engineering

Sept. 2015 – Present

University of Guelph, Guelph, ON

- Received the University of Guelph entrance Scholarship by graduating with the Ontario Scholar Award

Engineering Society - Computer/ES&C Engineering Senior Representative

Sept. 2018 - Present

- Liaison between 1500 engineering students, staff, faculty and administrators at the University of Guelph

University of Guelph Robotics

Sept. 2018 - Present

- Prototyping design for the Canadian International Rover Challenge