

# FARES ISSA

Fourth Year | Computer Engineering

*Goal driven individual who seeks challenges and new opportunities.*

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## SKILLS

### Languages:

C/C++, Java, Python,  
MATLAB, VHDL, Assembly,  
CSS, HTML, Bash

### Design Software/Other:

Git Version Control,  
SolidWorks, AutoCAD, Xilinx,  
Photoshop, Microsoft Office  
Linux/UNIX, Unity

### Hardware:

Nexys 3 FPGA, Arduino Uno,  
Raspberry Pi, Zed Board

## EDUCATION

### University of Guelph

Sept. 2015 - Present

## ACHIEVEMENTS

### Second Place Winner

*Hackville 2019 at Sheridan*

### Best User Experience

*Hackville 2019 at Sheridan*

### Social Isolation Second Place Winner

*Hackville 2019 at Sheridan*

### Entrance Scholarship

*University of Guelph*

## COURSE-WORK

- Object Oriented Programming
- Data Structures
- Operating Systems
- Analysis and Design of Computer Algorithms

## PROJECTS

### Relative Age Effect in the NHL

Jan. - April 2017

- Created a predictive model in **Python** to prove the relative age effect
- Analyzed **888** entries in a database and parsed essential data
- Produced results within **98.3% accuracy** by using basic machine learning
- Research and findings presented in LaTeX

### Engineering Design Challenge

Jan. - April 2017

- Lead a team to engineer a functional autonomous vehicle prototype
- Designed the vehicle components using **SolidWorks**
- Interfaced the chassis with the motor, circuit (H-Bridge) and Arduino
- Programmed driver and launch functions in **C++** using Arduino IDE
- Exhaustively tested to ensure safety, efficiency and accuracy of the device

## WORK EXPERIENCE

### Professional Supply Center Sales Associate

May 2016 - Aug. 2018

*Sheridan Nurseries, Mississauga*

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

### Cashier

Jan. 2013 - Sept. 2015

*Winners, Oakville*

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

## AFFILIATIONS

### Engineering Society

Sept. 2018 - Present

*Computer/ES&C Engineering Senior Representative*

- Liaison between 1500 engineering students, staff, faculty and administrators at the University of Guelph
- Represented students at provincial conferences working with our governing boards

### University of Guelph Robotics

Sept. 2018 - Present

- Prototyping design for the Canadian International Rover Challenge

## TEACHING

### Freelance Tutor

Jan. 2018 - Present

- Teaching the fundamentals of Grade 12 calculus