FARES ISSA

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SKILLLS

Languages:
C, C++, Java, Python, MATLAB, VHDL, Assembly

Design Software/Other:
SolidWorks, AutoCAD, Xilinx, Photoshop, Git, Linux, Arduino IDE, Microsoft Office

Hardware:
Nexys 3 Spartan-6 FPGA, Arduino Uno, Raspberry Pi, Zed Board

EDUCATION

University of Guelph
Sept. 2015 - Present
Computer Engineering

Garth Webb S.S
High School Graduate

AWARDS

Entrance Scholarship
University of Guelph
Admission average of 91%

Ontario Scholar Award
Garth Webb S.S
Graduate average above 80%

COURSEWORK

Object Oriented Programming

Data Structures

Discrete Structures in Computing II

Operating Systems,

Analysis and Design of Computer Algorithms

PROJECTS

Engineering Design Challenge   Jan. – April 2017
- Lead a team to design, and build a chassis for an autonomous vehicle using SolidWorks, then interfaced the mechanism with complex circuitry on a breadboard, two DC motors and an Arduino Uno microcontroller
- Programmed driver functions in C/C++ using Arduino IDE
- Exhaustively tested using simulations and waveform analysis to ensure safety, efficiency and accuracy of the device

Relative Age Effect in the NHL   Jan. – April 2017
- Under the supervision of Dr. Graham Taylor, research was conducted and large data repositories were analyzed by parsing NHL player birth dates, country of birth, and draft age
- Created a predictive model using statistical methods in Python and basic machine learning techniques which produced results within 98.3% accuracy relative to real-world statistics
- Final report was presented in LaTeX and followed ACM standard format

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 drive mechanism of a rover for the Canadian International Rover Challenge using LiDAR technology

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

Cashier   Jan. 2013 – Sept. 2015
Winners, Oakville
- Demonstrated precise attention to detail by receiving TJX Loss Prevention Recovery Award (2015)

TEACHING

Freelance Tutor   Jan. 2018 – Present
- Teaching the fundamentals of Grade 12 calculus