Nicholas Urbani

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SUMMARY OF SKILLS

Languages:

C, Python, Java, MATLAB, Arduino C, Assembly

Tools:

AutoCAD, Verilog, Quartus II, OrCAD, PSpice, AutoDesk Inventor, AutoCAD Map3D, Data Structures and Algorithms

Other:
- Excellent teamwork, communication and leadership skills obtained from project work
- Strong problem solving, critical thinking and decision-making skills obtained from DTS Technical
- Consistently able to manage and complete multiple tasks in a required time frame
- Strong electrical engineering skills and foundations such as analog and digital circuit analysis
- Experience creating electrical engineering schematics
- Intermediate knowledge of microcontrollers including Arduino
- Basic soldering and wiring skills
- Proficiency in Microsoft Office programs including Word, PowerPoint, Excel

EDUCATION

Bachelor of Electrical Engineering Candidate – McMaster University   **(September 2018 – Present)**
- 3rd year student, expected graduation 2022

EXPERIENCE

AutoCAD Technician – DTS Technical   **(April – August, 2019)**
- Drafted Aerial Permit drawings for proposed telecom upgrades and installations
- Performed pole loading analysis engineering calculations

Service Clerk – Zehrs Markets   **(August, 2016 – April, 2019)**
- Completed in store tasks to ensure company standards and customer satisfaction

PROJECTS & TECHNICAL WORK

Embedded Spatial Measurement System   **(January – March, 2020)**
- Designed and assembled a functioning Embedded Spatial Measurement System utilizing an MSP-EXP432E401Y microcontroller and the C programming language.
- Uses time-of-flight to acquire information such as distance and direction.

Arduino-RFID Door Opener   **(September – December, 2018)**
- Developed an electronic door opener to provide easy apartment access for individuals with MS as part of the 2018 McMaster IMPACT Initiative Engineering project
- Utilized an Arduino and physics fundamentals to develop an RFID automatic handle turner
- Selected as a top 10 device to be showcased to an individual with MS

ACCOMPLISHMENTS/EXTRA-CURRICULARS

- Recipient of Ted Rogers Scholarship
- Participant of DeltaHacks VI Hackathon