Murtadha Nisyif

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Education

University of Guelph **Sep 2019 – May 2023**
Bachelor of Engineering in Electrical and Computer Engineering - 4th Year *Guelph, Ontario*

Technical Skills

Hard Skills: Object Oriented Design, Version Control, Software Testing And Debugging, Microprocessor Architecture Design, Digital Signal Processing
Languages: C/C++/C#, Python(Django), JavaScript (React JS, Node JS), VHDL, Java, CSS, SQL (MySQL)
Frameworks: Android Studio, Xcode, Git, Unix, Keras, Tensorflow, Visual Studio, ROS

Work Experience

Research Assistant - Software Developer **Sep 2022 – Present**
University of Guelph - Robotics Inistitute *Guelph, Ontario*

- Developed ROS2 packages primarily in python, some in C++
- Assigned to bridge ROS1 existing code to ROS2 new packages

Information Technology Analyst **Jul 2020 – Oct 2020**
Kitchener Downtown Community Health Centre - SRHC *Kitchener, Ontario*

- Managed equipment upgrades with tight budget of $10,000 and short deadlines
- Improved networking and phone systems by adding new features and infrastructure
- Enhanced information and hardware sharing resulting in 20% increase in working environment efficiency
- Saved $5,000 by implementing cost-saving initiatives that addressed long-standing problems

Projects

StonkBot | *Python, VS Code, Git, Matplotlib* **May 2022**

- Facilitated players' data storage implementation to meet project budget and performance goals
- Integrated Discord Python API to create a discord bot that can run a mockery investing game
- Incorporated financial APIs to retrieve stocks/cryptocurrency prices with real-time price updates
- Built a python API that stores current players information and holdings as a JSON object for easy integration with possible future features

Image Processor | *Python, VS Code, NumPy, SciPy, Matplotlib* **Apr 2022**

- Led a team of 5 from different disciplines in engineering to incorporate a software solution to a UTI diagnosis device
- Incorporated SciPy, Numpy, and Matplotlib libraries to perform pixel calculations for Bar-Volumetric chip readout
- Developed a software model that provides 16x faster performance and is more reliable than the current gold standard
- Ranked first in Engineering & Design 3 in-school competition with a price of $2,000 among 50+ other teams

Extracurricular

Gryphon AeroSpace **May 2021**
Software Engineering Executive *University of Guelph*

First Robotics Competition **Sep 2017, Sep 2018**
Builder, Programmer, Notebook Manager *2702 Rebels*

Skills Ontario Competition **May 2018**
Builder, Notebook Manager, Lead strategist *Eastwood Collegiate Institute*