

# Murtadha Nisyif

<http://www.mnisyif.com>

Email : mnisyif@gmail.com

Mobile : +1 (519) 502-8463

## Education

**University of Guelph**

*Bachelor of Engineering in Electrical and Computer Engineering*

**Sep 2019 – May 2023**

*Guelph, Ontario*

## Skills

**Hard Skills:** Object Oriented Design, Version Control, Software Testing And Debugging, Microprocessor Architecture Design, Digital Signal Processing

**Object Oriented:** Python, C++, C, Java, Javascript

**Web Dev:** HTML, Javascript (React JS, Node JS), CSS, Python (Django), SQL (MySQL)

**Embedded Sys:** C, VHDL

**Framework and Tools:** Android Studio, Xcode, Git, Unix, Keras, Tensorflow, Visual Studio, ROS

## Work Experience

**Information Technology Analyst**

*Kitchener Downtown Community Health Centre - SRHC*

**Kitchener, Ontario**

*Jul 2020 – Oct 2020*

- 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**

**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/crypto 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**

**Apr 2022**

- Lead a team of 5 engineers in software development 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

**Memory Management Simulator | C, VS Code**

**Mar 2022**

- Adopted new learning paradigms to adopt system calls in Unix operating systems and develop kernel level programs
- Created a memory management simulator using C to analyze the time and performance contrarities of First fit, Best fit, Worst fit, and Next fit algorithms
- Improved the performance of the simulator by 15% by optimizing the searching algorithms

**Lights Out (Game replica) | Java, VS Code**

**Mar 2020**

- Followed MVC design pattern to implement the game logic equipped with a simple GUI. The logic utilizes FIFO queue to offer the capability to find the solution to the current board at all times

## Extracurricular

**First Robotics Competition**

*Team Member*

**Sep 2017, Sep 2018**

*2702 Rebels*

**Skills Ontario Competition**

*Team Member*

**May 2018**

*Eastwood Collegiate Institute*