

FATIMA LABADE

MECHATRONICS ENGINEER

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SKILLS

HTML
CSS, SCSS
JavaScript
Figma
SQL, MySQL

Github
VS Code, PyCharm, etc..
Python
C++
OOP

MATLAB
Arduino IDE
Raspberry Pi

Factory I/O
WinSPS-S7
PLC, LAD

GIMP
Photoshop
Inkscape

PCB Design , Soldering

SolidWorks
NX12
Fusion 360

Word, Excel, Power Point, etc...

EDUCATION

BACHELOR OF ENGINEERING

Mechatronics Engineering
Ontario Tech University,
Oshawa, ON
April, 2021 (Recent Graduate)

SUMMARY

- Web design experience through designing my own responsive portfolio webpage using Figma and programming it from scratch using SCSS, HTML and JavaScript.
- Over 5 years of programming experience through many projects and hobbies. More project details and demos on my webpage.
- Excellent programming, debugging and problem solving skills in C, Java, Python, and other languages.
- Strong verbal, writing, typing as well as customer service skills.

PROJECTS

WEBPAGE DEVELOPMENT & DESIGN

- Imitated multiple amazing webpage designs through tutorials
- Designed my own portfolio webpage using Figma
- Programmed my webpage using HTML, SCSS, and JavaScript on VS Code
- Used Github Webpages to publish my website by committing and pushing the code to Github through Github extensions from within VS Code.

AUTONOMOUS PACKAGE RETRIEVAL ROBOT

- Built and programmed a robot that autonomously locates and picks up 4 packages of 2 different colours and drops them off at specific areas based on their color. Then, returns home.
- Implemented and tuned a PID speed controller for the 2 four motors, used waypoints, timer interrupts, Arduino, OpenCV in Python, and calibrated an overhead camera to be used as a vision system.

BLUETOOTH RC CAR

- Built and programmed a fully functional RC car using Arduino which can be controlled from any phone.
- Built an Android app to control the car through Bluetooth.

FACTORY I/O

- Built virtual factories and control tasks using Factory I/O, such as sorters and box inverters.
- Learned to use Control IO block and PLC programming, ladder diagrams, logic gates, timers, counters for automating a factory.

CAD/3D MODELLING

- Designed a high-poly car with Rhino.
- Modelled a wallet with Fusion 360.
- Created a Fridge and a motorbike with Siemens NX and Solidworks.
- Modelled a donut using Blender.

HOME AUTOMATION

- Developed a small-scale home model for automating lights, fans, and temperature by using a microcontroller (Arduino).
- Built a large-scale wireless door and light switch controller.

OTHER MINI PROJECTS

- Simulated windshield wipers on a breadboard and on Circuit Tinkercad using Arduino.
- Wired an H-bridge circuit from scratch using NPN's and PNP's.
- Created a small water pump with a voltage regulator.

PROFESSIONAL EXPERIENCE

SUPPLY CHAIN SUPERVISOR

General Motors, Oshawa

May May 2019 - Sep 2019

- Watched for safety issues and performed random safety checks and reports.
- Counted and labelled inventory.
- Tracked all present and absent workers, completed End of Shift reports (EOS), and coded workers for labor charge, vacations, paid absences, etc. at the end of each shift.

CREW MEMBER

Tim Hortons, Oshawa

Aug 2018 - Mar 2020

- Learned to manage school while working part-time.
- Demonstrated communication and teamwork skills with diverse co-workers.
- Gained customer service experience.

CREW MEMBER

McDonalds, Markham

Jul 2017 - Feb 2018

- Multitasked efficiently and quickly to serve customers on time.
- Gained strong communication skills by taking headset and face-to-face orders.
- Developed teamwork skills through collaboration with other crew members.

PEER LEADER

Middlefield C.I., Markham

Sep 2014 - Sep 2015

- Raised awareness during the Newcomers Orientation Week (NOW) about bullying.
- Organized ice-breaker games and hosted and took the students for tours.
- Talked about their and our experiences in Canada and made them feel welcomed.