

FATIMA LABADE

MECHATRONICS ENGINEER

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SKILLS

HTML, CSS, SCSS,
JS, Figma
SQL, MySQL

Python, C++. OOP
Arduino IDE,
Raspberry Pi

MATLAB
Factory I/O,
WinSPS-S7
PLC, LAD

Github, Anaconda,
VS Code,
PyCharm, Eclipse
IDE

GIMP, Photoshop,
Inkscape

PCB Design,
Soldering

SolidWorks.
Siemens NX12.
Fusion 360

Microsoft Office
Suite
Google Suite

SUMMARY

- Intermediate web design experience using Figma, CSS, SCSS, HTML JS, and jQuery.
- Strong discipline in improving skills daily such as in JavaScript and jQuery.
- Over 5 years of programming experience through many projects and hobbies.
Details and demos can be found on my website.
- Excellent programming, debugging and problem-solving skills in C, Java, Python, and other languages.
- Strong verbal, writing, typing as well as amazing customer service skills.

PROJECTS

WEBPAGE DEVELOPMENT & DESIGN

- Imitated multiple website designs through tutorials and courses
- Designed my own portfolio webpage using Figma
- Programmed my portfolio website using HTML, SCSS, and JS
- Used GitHub Webpages to publish my website.

AUTONOMOUS PACKAGE RETRIEVAL ROBOT

- Built and programmed a robot that autonomously locates and picks up 4 packages of 2 different colours, drops them off at specific areas and then returns home.
- Implemented and tuned a PID speed controller for the motors.
- Used waypoints, timer interrupts in Arduino, OpenCV in Python, and calibrated an overhead camera to be used as the 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 controlled tasks using Factory I/O, such as box sorters and inverters.
- Used Control IO blocks, PLC programming, ladder diagrams, logic gates, timers, and counters.

CAD/3D MODELLING

- Modeled a high-poly car with Rhino, a wallet with Fusion 360 and a donut in Blender.
- Created a Fridge and a motorbike with Siemens NX and Solidworks.

HOME AUTOMATION

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

EDUCATION

BACHELOR OF ENGINEERING

Program: Mechatronics
Engineering

Location: Ontario Tech
University, Oshawa, ON
Recent Graduate in
Apr 2021



LANGUAGES

English – Native

Arabic – Native

Turkish – Intermediate

CERTIFICATIONS

HTML LinkedIn Badge

OOP LinkedIn Badge

HOBBIES & ACTIVITIES

Digital & Traditional Art

Realistic Painting

Realistic Pencil Sketching

Portrait Art

Biking

Rec. Floorball Hockey

Rec. Basketball

OTHER MINI PROJECTS

- Simulated windshield wipers on a breadboard and on Circuit Tinkercad using Arduino.
- Wired H-bridge circuits from scratch using NPN's and PNP's.
- Created a small water pump with a voltage regulator for better pumping efficiency
- Programmed and built a dog bark deterrent using Arduino and a sound sensor.

PROFESSIONAL EXPERIENCE

SUPPLY CHAIN SUPERVISOR

May 2019–Sep 2019

General Motors, Oshawa, ON

- 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

Aug 2018-Mar 2020

Tim Horton's, Oshawa, ON

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

CREW MEMBER

Jul 2018-Feb 2018

McDonalds, Markham, ON

- 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.

VOLUNTEER EXPERIENCE

AMBASSADOR

Apr 2018-Feb 2020

Ontario Tech University, Oshawa, ON

- Participated and supported staff during on-campus and off-campus events.
- Supported students specially those in 1st year studies.
- Volunteered at major university events such as

PEER LEADER

Sep 2014-Sep 2015

Middlefield C. I., Markham, ON

- 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.