

# FATIMA LABADE

## MECHATRONICS ENGINEER

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289.830.9290



Toronto, ON



fatimald11997.github.io



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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

## EDUCATION

### BACHELOR OF ENGINEERING

Program: Mechatronics  
Engineering

Location: Ontario Tech  
University, Oshawa, ON

Recent Graduate in  
Apr 2021

## 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.

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## 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 1<sup>st</sup> 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.