

MOHAMD IMAD

Mississauga Ontario, Canada

📞 647-648-3573 ✉️ medoimad@hotmail.com 🌐 [Mohamd-Imad](#) 🔄 [GitHub](#) 🏠 [Portfolio Website](#)

TECHNICAL SKILLS

Languages/Technologies: Linux, Python, Javascript, HTML, CSS, Git, SQL

3D Modeling Software/FEA Solvers: AutoDesk Inventor, SolidWorks, ABAQUS/Explicit

PROJECTS

Used Cars Web Scraper | Python, HTML, CSS

Mar 2022

- Developed a web application using Python, HTML, and CSS to scrape the data of newly posted used cars on the websites of the major automotive dealerships in the Greater Toronto Area GTA.
- The web application was deployed in Linux virtual machine on personal server.

Black Jack Application | Python

Jan 2022

- Developed a command line application using Python that duplicates the game Black Jack or 21.
- The web application was deployed in Linux virtual machine on personal server.

Tic Tac Toe Application | Python

Dec 2021

- Developed a command line application using Python that duplicates the game Tic Tac Toe.
- The web application was deployed in Linux virtual machine on personal server.

EXPERIENCE

Tool Design Research and Development Engineer | Castelar Tool - Mississauga

Aug 2021 – Present

- Designed and developed templates for custom made cutting tools using VB's illogic feature in Autodesk Inventor.
- Developed over 30 templates automatically generated manufacturing engineering drawings reducing engineering cost by over 70 percent.
- Utilizing postgresql via GNU/Linux command line and pgAdmin 4 GUI to design, develop, and manipulate databases.

Research Assistant | Ontario Tech University - Oshawa

Sept 2018 – June 2021

- Developed a novel numerical model that analyzed cutting inserts of indexable milling tools using ABAQUS/Explicit solver.
- Utilized LABVIEW to acquire experimental cutting forces and compare it to the generated numerical cutting forces from the FEA model.
- Used Python to create multiple scripts that calculated cutting forces analytically.

Industrial Engineering Intern | Siemens Canada - Scarborough

May 2017 - Aug 2017

- Conducted detailed time and cost studies on bottleneck departments, while supervising two industrial engineering students.
- Based on the acquired results a manufacturing time calculator was created for production supervisors to use to allocate the correct time for the production of different parts.

Process Engineering Intern | Siemens Canada - Scarborough

May 2015 - Aug 2016

- Collaborated with production supervisors, engineers and floor employees to create various plants layouts in AutoCAD to support the plant's manufacturing departmental layout changes.
- Improved manufacturing procedures to maximize production quality and minimize defects.

EDUCATION

University of Ontario Institute of Technology

June 2021

Masters of Applied Science in Mechanical Engineering

Oshawa

University of Ontario Institute of Technology

June 2018

B.Eng (Honours) in Manufacturing Engineering

Oshawa