

MOHAMD IMAD

Mississauga Ontario, Canada

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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, Git, PostgreSQL, Linux

Mar 2022

- Developed a web application that scrapes the data of all used vehicles on the web page of a major automotive dealership.
- The web application is able to transfer the data into a .csv file and to a PostgreSQL table.

Black Jack Application | Python, Git, Linux

Jan 2022

- Developed a command line application using Python that duplicates the game Black Jack or 21.

Tic Tac Toe Application | Python, Git, Linux

Dec 2021

- Developed a command line application using Python that duplicates the game Tic Tac Toe.

EXPERIENCE

Tool Design Engineer | Castelar Tool and Grinding - Mississauga, Ontario

Aug 2021 – Present

- Developed templates for custom made cutting tools using VB's illogic feature in Autodesk Inventor.
- Designed custom made tools and fixtures.
- Prepared detailed engineering drawings for the various manufacturing stages cutting tools must undergo to be manufactured.

Research Assistant | University of Ontario Institute of Technology - Oshawa, Ontario

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, Ontario

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, Ontario

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, Ontario

University of Ontario Institute of Technology

June 2018

B.Eng (Honours) in Manufacturing Engineering

Oshawa, Ontario