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, ABAQUX/Explicit

PROJECTS

Used Cars Web Scrapper | *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 temples for custom made cutting tools using VB's ilogic 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*