Mohamd Imad

Mississauga Ontario, Canada

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TECHNICAL SKILLS

Languages: Python, MATLAB-Simulink, SQL

Technologies: Linux, Git, Pandas, Numpy, Matplotlib, Scikit learn

EXPERIENCE

General Motors of Canada

Ontario Canada

Vehicle System Diagnostics and Controls Calibration Software Engineer

Feb 2023 - Present

- Responsible for Body Control Module (BCM) software calibration of over 15 vehicle programs.
- Continuously building automation tool via Python to optimize the working process of testing engineers and calibrators.
- Utilizing Machine Learning in producing predictive models that is able to reduce engineers process time.

Controls and Diagnostics Test Software Engineer

Apr 2022 - Feb 2023

- Building automation tools via Python in VS Code to improve the process flow and reduce testing setup time. Resulted in over 40 percent test engineer's time savings.
- Responsible to conduct the testing and diagnostics of Diagnostics Trouble Codes (DTCs) in HIL benches (PHS/SCALEXIO) and in pre-development And production approved vehicles for the Body Control Module (BCM).
- Responsible to develop test plans for vehicle On Board Diagnostics (OBD) and conduct testing using Vspy3.

Castelar Tool and Grinding

Ontario Canada

Tool Design Engineer

Aug 2021 - Apr 2022

- Developed temples for custom made cutting tools using VB's ilogic feature in Autodesk Inventor, resulting in 80 percent decrease cutting tools development time.
- Prepared detailed engineering drawings for the various manufacturing stages cutting tools must undergo to be manufactured.

University of Ontario Institute of Technology |

Ontario Canada

Research Assistant

Sept 2018 - Jun 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.

Siemens Canada |

Ontario Canada

Industrial Engineering Intern (Co-op)

May 2017 - Aug 2017

- 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.

Process Engineering Intern (Internship)

May 2015 - Aug 2016

- 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.

EDUCATION

University of Ontario Institute of Technology

University of Ontario Institute of Technology

Masters of Applied Science in Mechanical Engineering

2021 Ontario, Canada 2018 Ontario, Canada

B.Eng (Honours) in Manufacturing Engineering