Sherif Mansour

375 Rue de la Concorde, Montreal, QC | +1 (514)-577-5552 | sherif.mansour@mail.mcgill.ca

Objective

Recent graduate of McGill University majoring in Mechanical Engineering with a broad skill set of problem solving, experience with a multitude of engineering software, effective communication skills, and working well under pressure. Currently seeking industry experience in various engineering disciples to develop my skillset and network.

Education

McGill University - Bachelor of Engineering Mechanical – U4 Jan 2014 – Apr 2019

Work Experience

Product Lifecycle Management SOW – Pratt&Whitney Canada **January 2019 – Current**

- Conduct product lifecycle management (PLM) activities related to bill of material(BOM) and data integrity.
- Responsible for reviewing business requirements of issues raised with Enovia software and work with the IT department to provide solutions for fixes.
- Completed investigation and correction of all SPD engineering specifications on EV6
- Conducted testing procedures regarding simulation, part spec accuracy, search, and BOM for Enovia's 3.19 build to be released in September.
- Assess validity of migrated documents and BOM from old legacy software onto Enovia
- Created cookbooks generation 2.0 to be integrated within the Enovia software using a coding compiler.
- Conducting training procedures for different plants of Pratt&Whitney to better navigate Enovia software

Mechanical Engineer Trainee – Expro Gulf, Dubai, U.A.E **June 2016 – August 2016**

- Training of equipment and well operations overview
- Review Non-conformity, confidentiality, assembly, BOM, and testing documents for choke manifolds, separators and heaters.
- Fill out Technical assurance standard procedures following standards of API, ASME, GQC and DNV
- Report any missing or incomplete documents/certifications on the E-track Portal
- Delegate required actions to the respective employees through the E-track Portal.
- Conduct a report on competitors in Kurdistan region, their respective oil blocks, and well activity.
- Inspect non-destructive testing on new equipment

Administrative Assistant – Vodafone Cairo, Egypt **June 2015 –July 2015**

- Responded to public questions professionally and competently leading to positive customer service reviews
- Conducted analysis on phone usages and activity and reported it to manager to highlight key usage areas
- Arranged room bookings and meeting times; successfully implemented a room and meeting calendar in office
- Assisted in typing, filing, mailing, photocopying, scanning and other office needs

Academic Projects

Capstone Project: Design and Build a Vacuum Clamping Plate for CNC Machine

- Worked with a team to design and build a vacuum clamp to be used in the McGill workshop according to client's specification (client contact: sam.minter@mcgill.ca)
- Conduct research regarding existing technologies in the industry and determine variables to calculate required clamping force for specifications from client
- Designed concepts and developed a CAD on SolidWorks for prototype clamping plastic and aluminum parts subject to drilling and face milling procedures
- Tested Prototype at workshop and modified the design accordingly to extract final design
- Composed multiple reports and presentations throughout the year to effectively explain the concept

Topology Optimization of Titanium Bracket Aircraft Structure

- Using SolidThinking Inspire Software, optimize given bracket under loading condition without failure with a safety factor of 1.4
- Identified design and non-design space, and conducted an FEA simulation with the optimized part
- Investigated the maximum Von-Mises Stress and compared with material yield stress for safety factor
- Analyzed final weight of the bracket and verified that optimization fulfilled constraints of additive manufacturing procedure

Double-Reduction Double-Branch Gear Box Design – Solar Impulse Aircraft

- Designed gear assembly with shafts and bearings to withstand torque provided by motor
- Carried out load and stress analyses, selected material to withstand the load, calculated safety factors
- Constructed the CAD model assembly and individual drawings on SolidWorks
- Composed a report on the design procedure with detailed load diagrams and calculation procedures.

Technical Skills

- **Languages:** English and Arabic (Fluent), Spanish (Professional Proficiency), French (Beginner)
- **Software:** SolidWorks, MATLAB, Python, ANSYS, Microsoft Office Suite, Enovia, LateX, CATIA V5, ABAQUS