

SEIF HASSAN

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EXPERIENCE

Tiercon, Product Designer - Design, Innovation & Development
Oct 2020 - Present

- Led from concept-to-launch the development of exterior automotive parts for a Big 3 automotive company
- Generated 3D models and drawings in CATIA/NX; validated designs through tolerance analysis, prototypes, testing, FEA, and CFD
- Worked cross-functionally with internal and external stakeholders including international suppliers and customers

Cleanslate UV, Product Development - Capstone
Sep 2019 - Apr 2020

- Designed a mountable UV phone sterilizer to reduce hospital-acquired infections and protect patients with compromised immune systems
- Tested a proof of concept by conducting UX studies, pilot studies, and prototyping. The solution killed 99.9% of infectious bacteria

AGS Automotive Systems, Mechanical Engineer
May 2018 - Aug 2019

- Led and owned the tooling development for use in manufacturing processes: designed a universal tool to cut back on cost by 75%
- Reduced manufacturing costs by over \$134,000 by redesigning shipping racks to allow for commonization and re-use
- Developed 3D models & drawings in SolidWorks & validated designs through FEA simulations (ANSYS), prototyping, testing, and analysis

Bombardier Aerospace, Data Analyst (Business Intelligence)
May 2017 - Aug 2017

- Built a business intelligence tool to reduce resources required to generate monthly fleet performance reports for clients
- Developed mobile dashboards for V-level management to monitor the reliability performance of the fleets
- Developed an internal tool on MicroStrategy that allows easier distribution and management of dashboards

PROJECTS

Predicting Patient No-Show Using ML
May 2021 - Sep 2021

- Built a Random Forest Classifier model in Python that predicted patient no-shows at a Brazilian hospital with 70% accuracy

AI-Powered Text Summarizer
Sep 2020 - Jan 2021

- Developed a text summarizer using Hugging Face transformers in Python
- Achieved a Rouge Score of up to 0.3 depending on the type of text

EDUCATION

University of Toronto
B.A.Sc. Mechanical
Engineering
Graduated 2020
3.76/4.0

Certificate in Business

CERTIFICATIONS

Advanced Data Science
IBM
Sep 2021

Deep Learning
DeepLearning.AI
Jul 2020

Machine Learning
Stanford University
Jun 2020

SKILLS

Product Design
3D CAD (SolidWorks, CATIA, NX), Drafting (GD&T), Six Sigma, DFMEA, DFM/DFA, DoE, VAVE, Rapid Prototyping

Lab Skills
Mechanical Testing, Optical Microscopes, Basic Cleanroom Fabrication, Breadboarding and Prototyping Circuits

Data Science
Data Acquisition, Processing, Exploration, Analysis, Visualization