
PROFILE

Analytical and detail-oriented engineering professional with 3+ years of hands-on experience in progressively responsible technical positions. Excellent interpersonal skills applied in collaborating with and leading cross-functional teams. Substantial base of knowledge in CAD modeling, programming, PCB design, embedded systems and control systems.

AREAS OF EXPERTISE

- 3D Modeling
- Computer Aided Drafting & Design
- Microcontrollers
- Microprocessors
- Technical Writing
- Programming
- Modeling & Simulation
- Embedded Systems
- Data Analysis & Application

EDUCATION

Programmable Logic Controllers Technician Program Certificate, 2020
George Brown College

B.Eng., Electrical Engineering, 2018
Ontario Tech University

SELECTED COURSEWORK

- Discrete Time-Signal Processing
- Advanced System Controls
- Wireless Communication Systems

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CORE TECHNOLOGIES

- Programming:** Matlab, Simatic, C/C++/C#, CSS, Java, Javascript, Node.js, SQL, HTML, MySQL
- Software:** Fusion 360, Autodesk Inventor, AutoCAD, Maya, Blender, Adobe (Illustrator, Premiere, Photoshop, Lightroom), MS Office (Word, Excel, Access, Project), Atrex, Visual Basic
- Hardware:** LTSpice, MultiSim, EagleCAD, TinyCAD

PROFESSIONAL EXPERIENCE

Project Coordinator April 2018 to Present
Win-Haul Container Inc., Brampton, ON

Support the completion of multifaceted projects from conceptualization through delivery. Utilize parametric-based 3D modeling software to create detailed technical drawings of standby generator units. Draft detailed parts manuals to best articulate complex components to potential customers and support sales growth. Effectively administer database system to increase efficiency in tracking high-volume flow of parts inventory.

- Designed and integrated innovative test systems to evaluate functionality and performance of generator components.
- Launched database resource to efficiently query data, resulting in a 50% reduction in time required to generate warranty reports.

Technician May 2015 to August 2015
Leader Refrigeration Services, Brampton, ON

Conducted repair operations on mechanical and high-voltage electrical systems. Managed a team of technicians to coordinate the execution of daily maintenance operations and establish weekly schedules. Collaborated with manufacturers to acquire replacement parts and ideate effective maintenance solutions. Coordinated with clients to conduct unit inspections and verify compliance and functionality.

- Integrated new control system firmware testing techniques to ensure continuous compliance with functional requirements and safety guidelines.

SELECTED PROJECTS

3d Animation for Truck Show Exhibition

May 2019 to September 2019

Utilized Fusion 360, Maya, and Blender to create a 3D animation of trucks, trailers, and gensets for display at ExpoCam and LA Truck Show. Effectively laid out animation features to ensure ease of use and future adaptations. Rendered and compiled frames and overlaid audio using Adobe Premiere.

- Developed animation display that was prominently presented at California Intermodal Expo.

Microphone Array System with Steerable Beamform

September 2017 to April 2018

Led a four-person design team in designing and developing an embedded microphone array system featuring a steerable Frost Beamform Algorithm. Coordinated project stages to ensure completion of all tasks within 8-month time frame. Utilized EagleCAD to create and optimize layout for Dual-Layer PCB. Applied expertise in SigmaStudios Software from Analog Devices to encode Frost Beamforming Algorithm into DSP.

- Successfully reduced pathing and PCB footprint by refining PCB layout in EagleCAD.
- Utilized Matlab to construct and test beamform steering algorithms, as well as simulate microphone array frequency responses at multiple angles.