EWING HO

Electrical and Computer Engineer

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Highlights of Qualifications

- Well versed in 3D modeling and drafting software with emphasis on freeform model design in Fusion 360
- Experienced in programming numerical computing environment for simulations of mathematical space in Matlab
- Highly skilled with application and embedded systems development in C++, C, C# and Assembly Language
- Knowledge of Information Technology systems and deep comprehension of Computer Architecture
- Composed detailed procedural documentation for use with applications and hardware operation

Education

University of Ontario Institute of Technology (UOIT) *2011 - 2018*

Bachelors of Engineering (Honors) – Electrical Eng.

Key Courses

- Discrete-Time Signal Processing: Analyzed Digital Signals and application of algorithms to process the signals
- Advanced Control Systems: Control system design and procedures;

Work Experience

Project Coordinator - Win-Haul Container Inc. *May 2018 – Present*

- Incepted management solution to track flow of parts inventory for high-voltage standby generator units
- Generated parametric drawings to model 3D representation of high-voltage standby generator units
- Created Computer-Aided-Designs (CAD) models from parametric design in Fusion 360 and Autodesk Inventor
- Established a detailed parts manual for high-voltage standby generators

Project Manager - Win-Haul Container Inc. *May 2017 – August 2017*

- Developed core GPS server database to track timestamps, positions and fuel level of AC generators using SQL
- Automated transmission of server input to optimize system limiting data usage over UMTS/CDMA networks
- Design and implemented a discrete system to remotely start diesel engine of 3-phase generator using UMTS/CDMA Networks
- Established an initiative to gather user requirements to enhance the usability of existing system interface
- Designed and developed GPS tracking system user interface for portable 460V 3-phase AC generators in compliance with the user requirements
- Oversaw the hardware design for a GPS tracking system for portable 360V 3-phase AC generators

Technician - Leader Refrigeration Services *May 2015 – August 2015*

- Repaired high voltage electrical and mechanical failures and formulated an effective solution with manufacturers for the replacement of broken container parts
- Implemented control system firmware testing techniques to ensure proper operation within safety standards
- Investigated various components of the control system for any possible needs of an upgrade
- Coordinated refrigeration unit inspection processes with clients to ensure compliance of functional requirements
- Developed weekly plans to establish clear schedules between clients and their allocated technician
- Managed a team of technicians to properly coordinate and execute daily tasks in accordance with the client