Nerushan **Naguleswaran**

ELECTRICAL ENGINEER · STRIVING PROGRAMMER · ENTHUSIASTIC LEARNER

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About

Ability to work in groups and to finish a task on time, using communication, problem-solving skills project management, and technical skills experience gained from work and engineering courses.

Experience

Sr. Technical Student

Toronto, Canada

TORONTO HYDRO - METER DATA MANAGEMENT

January 2019 - Aug 2019

- Doing regular maintenance of meter data in data reading software known as ODS and MV90
- Team Lead for Meter Conversion project where the objective was to convert meters to Time of Use
- Organizing the team by dividing work among the students and ensuring making our daily quota
- Communicating with supervisor and Sr. Technician for any concerns and updates
- Using PL/SQL to gather meter information from Oracle servers
- Using Excel macros to interpret or compare large data set
- Using MV90 to establish connection to meters getting converted to Time of Use, then sending it to Sr. college to finish customer side
- Assisting with Sr. Technician in Wholes metering where the objective was to audit and ensure Toronto Hydro has functionality and back up Transformer
- Organizing Transformer's manufacturer datasheet for correct information and reference SAP to check status

Projects

Team Lead

Toronto, Canada

ENGINEERING CAPSTONE (ENG4000)

Sept 2020 - April 2021

- A project proposed by Toronto Hydro about the viability of Electrical Vehicle chargers and Battery Energy Storage System for Condos in Toronto
- Developed an Energy Management System platform to show the energy system in one environment
- Developed an extensive Python simulation for the Battery Energy System (Bess), Multi-Unit Residential Building (MURB), Ev chargers and car flow
- Developed the EV chargers and car flow simulations for both real time and historical time using functional Python
- Developed the Bess functionality using object oriented
- Developed the billing functionality for the MURB using Node.js
- Organized meetings with Toronto Hydro to update on put progress and communicate our concerns, as well manages communications to the course's advisors as the team lead
- Responsible to document project progress and handle the reports that needs to be handed in

Skills

Back-End Development	Node.js/ExpressJS, Python
Database Development	PL/SQL, MongoDB
Publishing Software	Microsoft Office (Excel, Word, PowerPoint)
DevOps	Github
QA and Testing	Postman
Simulation and Numerical Tool	MATLAB, Simulink, Spice, Psim
Other Languages and Tools	C, C++, Java, Bash, Verilog, R-Studio, Unix/Linux shell

Education

Bachelor of Engineering (BEng) in Electrical Engineering

Toronto, Canada

LASSONDE SCHOOL OF ENGINEERING, YORK UNIVERSITY

Expected June 2021