
Michael Zhao

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Education and Skills

Electrical and Computer Engineering 2nd year: University of Toronto St George 2015-2019

- President's Scholar Entrance Scholarship (\$1000)
- Online Courses: Neural Networks for Machine Learning (Coursera)

Skills

- Proficient in: C, C++, Verilog, embedded programming, Java, Git
- Familiar with: MATLAB, Altium, GIS, SVN, Python, Bash

Experience

BMS Team Manager: Blue Sky Solar Racing 2016 - Present

- Managed team of 3 on the design and testing of a Battery Management System (BMS).
- Arranged meetings and effectively communicated with relevant members allowing increased productivity and data collection which decreased time spent on each design iteration by 20%.
- Contributed to the analysis on the hardware and software implementation of the LTC6804 voltage sensing chip which allowed team members with less technical knowledge to continue in their work.
- Designed and calibrated temperature sensing module using NTC thermistors and created schematics for future implementation.
- Researched and implemented software on the STM32 microprocessor for the temperature sensing module and contributed to its use in a real-time operating system.

Research Assistant: Ambulance Emergency Response Optimization (AERO) 2016

- Research assistant for optimizing ambulance paths on the roads of Dhaka, Bangladesh.
- Researched and developed method to CAD and extract key analytical information using ArcGIS software that was used to format over 9000 points of data for easy use.
- Developed and streamlined Python script to extract adjacency matrix from GIS software for future use as data points for optimization.

Projects

Remake of the Legend of Zelda in Hardware (1986) 2016

- Collaborated with one other to remake the original Legend of Zelda game on an Altera DE1-SOC field programmable gate array.
- Applied knowledge of FSMs and hardware programming paradigms to create readable and functional Verilog code used to program FPGA.
- Project includes a fully functional map, colours, combat and user interface implemented using a finite state machine.

Hobbies/Interests

Iron Dragons Dragon Boating 2015 - Present

- Won silver in Division 3 final at the Montreal Dragon Boat Challenge