Aaron Kammula

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Education:

Sept 2015 - Present

University of Toronto - Faculty of Engineering
Bachelor of Applied Science - Computer Engineering
Specializations: Software, Networks, Optics

Skills:

Programming/Databases: AJAX, Arduino UNO, C/C++, CSS3, HTML5, Java, JavaScript(ES6 and Angular), jQuery, MATLAB, MySQL, Nios II Assembly, Python, Verilog.

Software tools/Environments: Adobe Photoshop, Apache Tomcat, FPGA, ModelSim, Maven, Node.js, Quartus, Windows, UNIX, UG Machine.

Other Skills: Microsoft Word, Excel and PowerPoint, SolidWorks, Wiring, Vector Network Analyzer, Jenkins, Spring and Hibernate.

Experience and Projects (All from the University of Toronto):

Engineering Group Project
Jan 2016 – Apr 2016

Re-designing Rainbow Cinemas

• Collaborated with an undergraduate engineering group from the University of Toronto to design a new plan for a theatre space that attracts multitudes of age groups.

• Ensured that the production costs, ease of use, environmental damages, and safety were optimized with the use of engineering design principles taught in class.

Blue Sky Solar Racing
Sept 2016-Sept 2017

Fabrication and Strategy Development Member

• Responsible for making sure the Solar Car travels in the most time efficient route with the use of various algorithms and pieces of environmental data organized with Excel.

• Helped build, fix and modify the top and bottom plugs of the car, along with the exterior model made out of carbon fibers for as long as 12 hours a day.

Chem-E-Car Lead
Jan 2017- Sept 2017

Mechatronics Division Lead

• Created a car that was able to run and stop at random points on the ground with the use of chemical reactions.

• Lead a sub group into successfully wiring all of the power reactions, and making an optimal car frame with the use of SolidWorks and Arduino.

Software Project
May 2017

Digimon Go (GIS Platform) with C++

• Created a GIS similar to Pokémon Go with a partner. Special features included: GPS, detailed layouts of specific cities and countries, and a search bar for destinations on a map.

• Used various data structures, algorithms, libraries and API's such as: KD tree, R tree, Linked List, Red-Black tree, Easy GL library, Standard Template Library, and StreetsDatabaseAPI.

Awards and Certifications:

• Standard First Aid Certification — July 2016
• G License Certified — July 2016