Justin Fu

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Objective

Looking to apply prior programming experience to a summer Internship in the Computer Engineering Field.

Education

University of Michigan **Ann Arbor, MI**

- Pursuing a BSE degree in Computer Engineering *(May 2019)*
- Interest in Robotics and Computer Vision
- GPA: 4.0/4.0

South Brunswick High School **Monmouth Junction, NJ**

Coursework: *(June 2015)*

- 3 Years of Computer Science courses including AP Computer Science A. (Java Language)

Other Relevant Work:

- New Jersey Governor's School of Engineering: Experience in Android and Arduino development
- Vex Robotics Team: Worked with microprocessors (Vex Cortex), analog, and digital sensors.

Experience

CMISST at the U of M Transportation Research Institute **Ann Arbor, MI**

Student Programmer *(Dec 2015-Present)*

- Implementing modular Python functions that derive variables from varying crash data sources for use by researchers through a graphical user interface.

Kasper Space Launch Team **Ann Arbor, MI**

Research Assistant (Multidisciplinary Design Program): *(Jan 2016-Present)*

- Using the National Instruments Python Module to Build a program that takes live current data from a particle detector to determine the location, intensity, and size of a charged particle beam.
- Aiding in the construction, testing, and calibration of this particle detector prototype for future use in calibrating spacecraft instrumentation.

Project Experience

Ground Station Telemetry Display **Ann Arbor, MI**

University of Michigan Aero Design Team (MFly) *(Sept 2015-Present)*

- Employing Java GUI APIs along with JFreeChart and Xbee Radio APIs for processing live telemetry from a remote controlled airplane and to output to a user-friendly display.

Google Cardboard FPS **Ann Arbor, MI**

MHacks VI at the University of Michigan *(Sept 2015)*

- Utilized the Google cardboard VR api along with the Unity game development environment (C# scripting) to create an immersive first person shooter.
- http://devpost.com/software/drone-assault

Skills

- Programming Languages: Java, Python, C++, Matlab, Arduino
- General Computer Skills: Linux command-line, Microsoft Excel, Word, PowerPoint