

Shreyas Gatuku

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Education

Carnegie Mellon University, Pittsburgh, PA

Bachelor of Science in Electrical and Computer Engineering
Additional Major in Robotics
GPA: 3.52

2015 – 2019

Loudoun County Academy of Science, Sterling, VA

Gifted Program for Math, Science, and Research

2011- 2015

Experience

Northrop Grumman, Baltimore MD

Summer 2017

Digital Verification Intern

- Constructed test environments for FPGA driven radar sub-systems
- Used UVM, System Verilog, and Matlab to build expandable and reusable test benches

Sprint, Reston VA

Summer 2016

Web Developer Intern

- Worked on the maintenance and performance of the corporate website
- Used data analytic tools such as Elk, Splunk, and Keynote

Hwa Chong Institute International Research Collaboration, Singapore

2013-2014

Research Intern

- Studied the Improvement of the Power Efficiency of the Savonius Vertical Axis Wind Turbine with Parabolic Blade Geometries
- 2nd place in Hwa Chong Research Fair, 1st place in Academy of Science Research Fair

Projects

Flow

Summer 2016

Personal Project

- Built a web application to generate and visualize dance routes
- Used across the nation by dance teams from all dance circuits

Super Mario Bros. Map Developer

2016

Term Project

- Programmed a software tool that converts hand-drawn game maps to virtual playable game levels
- Uses Python and Python Libraries (openCV, Tkinter)

SmartLock

2016

Personal Project

- Built an embedded system driven by Arduino to securely unlock/lock door handles through a web application

Activities

Carnegie Mellon Racing, Pittsburgh, PA

2015-2016

- System Lead for the Rear Sensor Module which controls coolant pumps/fan, damper position sensors, etc.

FIRST Robotics, Leesburg, VA

2011-2015

Member and Competitor (Lead Designer, Electrical Engineer, Mechanical Engineer, Driver)

- FRC: 1st place Rookie Inspire Award Regionals, Competed in World's Championship St. Louis
- FTC: Competed in State Competition 4 years and Super-Regional Competition 1 year

Skills

FPGA/RTL Design, System Verilog, UVM, Matlab/Simulink, Python, Arduino, C, PHP, MySQL, HTML-CSS-JavaScript, CAD