

# Sufyan Dawoodjee

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## OBJECTIVE

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An internship that utilizes my knowledge of Computer Science to solve real-world problems

## EDUCATION

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University of South Florida    GPA 4.0  
**Bachelors of Science in Computer Engineering**

*Tampa, FL*  
*Expected December 2014*

## SKILLS

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Proficient in C, C++, C#, Python, MATLAB, Java  
Familiar with HTML/CSS/JavaScript  
Windows, Mac OS X, Linux  
Verilog, VHDL, SPICE, Cadence Virtuoso

## EXPERIENCE

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### **Application Developer Intern, J.P. Morgan Chase**

*June 2014 – August 2014*

- Enhanced the Global Liquidity Engine JSF web frontend to present corporate account information
- Coordinated design review for a major Global Liquidity Engine release

### **Student Assistant, Robot Perception and Action Lab**

*May 2013 – Present*

- Ported vessel enhancement and feature detection algorithms from MATLAB to C++
- Segmented vessels and organs from CT Scans and generated 3D models

## PROJECTS

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### **Senior Project for CAE Inc.**

- Developed a real-time, networked, debugging utility for CAE flight simulators using C#
- Reverse engineered existing client-server system by intercepting network packets to determine protocol details and message formats
- Designed a new client that can capture and modify variables dynamically on running simulations

### **FPGA Audio Recorder/Player**

- Developed a system that records and plays audio on a Xilinx Virtex-5 FPGA board using Verilog
- Designed and implemented state machines for controlling audio codec, LCD display, IP core RAM, and overall system

### **Full-Custom Thermometer ASIC**

- Designed, from scratch, the schematic and layout of a CMOS circuit for displaying ambient temperature in degrees Celsius or Fahrenheit in BCD
- Devised and executed SPICE simulations to verify both schematic and layout integrity

## HONORS & ACTIVITIES

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### **Inventors' Club at USF**

**President**

*October 2012 – May 2014*

- Coordinated club activities and secured funding for club events and projects

### **IEEE USF**

**Member**

*September 2012 – Present*

### **Program-A-Bull Competition**

**2<sup>nd</sup> place**

*October 2014*

- Achieved 2<sup>nd</sup> place among 16 teams in a programming contest hosted by USF's ACM branch