Sufyan Dawoodjee

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INTERESTS

Computer Architecture, Networks, Operating Systems, Security, Compilers, Entrepreneurship

EDUCATION

University of South Florida   GPA 4.0   *Tampa, FL*
Bachelors of Science in Computer Engineering   *August 2012 – December 2014*
Edgewood Jr/Sr High School   Valedictorian   *May 2012*

SKILLS

C, C++, C#, Python, Haskell, MATLAB, Java, HTML, CSS, JavaScript
Verilog, VHDL, SPICE, Cadence Virtuoso, Windows, Mac OS X, Linux

EXPERIENCE

Research 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

Application Developer Intern, J.P. Morgan Chase   *June 2014 – August 2014*
- Enhanced the Global Liquidity Engine JSF web application to present corporate account information
- Coordinated design review for a major Global Liquidity Engine release

Research Assistant to Dr. Selçuk Köse   *December 2012 – May 2013*
- Modeled and simulated circuits containing memristors

PROJECTS

WRAITH Debugger 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 on seven-segment displays
- Devised and executed SPICE simulations to verify both schematic and layout integrity

HONORS & ACTIVITIES

USF Provost's Scholar   *August 2012 – Present*
USF Tradition of Excellence Award   *August 2012*
Franz Mantini Endowed Scholarship   *October 2013*
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*