

Objective

Seeking experience in the realm of Aerospace Engineering and Computer Science. Specific interests include Unmanned Aerial Vehicles (UAVs), Blended Wing Body aircraft (BWBs), and intelligent robotics.

Education

B.S. Aerospace Engineering, minor in Computer Science – GPA 3.79 AE, 4.00 CS Expected May 2011

University of Southern California (USC)

Planning on earning a M.S. in Intelligent Robotics by May 2012 with USC's Progressive Degree Program

Relevant Coursework: Linear Control Systems I, Mechoptronics Laboratory I and II, Dynamics of Fluids, Flight Mechanics, Astronautics and Space Environment I, Engineering Thermodynamics I, Introduction to Artificial Intelligence, Introduction to Robotics, Introduction to Digital Logic, Advanced Writing, Analytical Writing

Experience

USC AeroDesign Team – Performance Captain Spring 2009 - present

- Sized the competition plane through an iterative optimization process in Excel and MATLAB as Performance Captain
- Gained workshop experience by building plane parts from composite materials as Payloads Team member

USC Aerial Robotics Team – Software Team Lead Fall 2009 - present

- Organized team goals and set up project schedules as software team lead
- Created a Simultaneous Localization And Mapping (SLAM) algorithm for quad-rotor helicopter

Computer Science 201 – Team Manager Fall 2009

- Costed task items and handled inter-personal dynamics to make student programmers more efficient

Raytheon – Quality Engineer Summer 2009

- Interned in the Quality organization with Mission Assurance to audit labs against engineering command media
- Coded VBA macros in Excel to provide trend analysis of non-conformances in Space and Airborne Systems programs

Illumin – Web Developer Spring 2008 - present

- Designed and implemented a Content Management System from scratch using PHP and MySQL
- Maintained the FreeBSD server that houses Illumin

Flash Avenue – Web Developer Fall 2007 - Summer 2008

OneGeek – Computer Repair Technician Spring 2006 - Fall 2007

Skills

- Engineering: LabVIEW, Matlab, SolidWorks (Certified Associate), Solid Edge, MultiSim, ModelSim SE, Xilinx
- Computer Science: C++, Java, JUnit (unit testing), SVN, multithreaded programming with agent architecture
- Web Development: PHP, MySQL, HTML, XML, CSS, Javascript, jQuery, Firebug, Adobe Photoshop

Honors

- "Bridging the Gap" award from the Society of Women Engineers Spring 2010
- California Space Grant Consortium UROP Research Scholarship Spring 2010
- USC Viterbi School of Engineering Stillman Scholarship Fall 2009 - Spring 2010
- USC Viterbi School of Engineering Dean's List Spring 2009 - present
- Dallastown Area High School Dollars for Scholars Scholarship Spring 2007
- Most Useful Award at the Google 24 Hour Programming Challenge at USC February 2008

Activities

- The Spirit of Troy, USC Trojan Marching Band - Snare Drum Spring 2008 - Spring 2009