Thomas Feeney

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Objective
Currently not seeking employment.
Special interests include embedded system design, systems integration, PCB design, and autonomous vehicles.

Education
Bachelor of Science in Electrical Engineering
Minor in Mathematics
University of Florida, Gainesville, Florida
Anticipated Graduation: Aug 2009
Current GPA: 3.11/4.0

Relevant Coursework
Digital Design and Computer Organization
Microprocessors and Intelligent Machine Design
Electromagnetic Fields
Computer Aided Design and Design & Manufacturing
Differential Equations and Transforms

Research

SubjuGator
I am the leader of the 2009 SubjuGator Team, and was co-leader in 2009. I designed a 4-layer, 14 port serial to USB router PCB, written code in C++ and C# to manage the many sensors (Doppler velocity log, high-speed cameras, digital compass, inertial measurement unit), maintained the operating system and programming environments, and lead the mechanical design of the vehicle. I was a significant member of the 2007 Team.

Center for Intelligent Machines and Robotics (CIMAR)
I designed a custom computer chassis for the 10 dual-core computers located in the back of the Team Gator Nation autonomous car. I also ported a communication software library for the Joint Architecture for Unmanned Systems (JAUS) framework from Linux to Windows.

Machine Intelligence Lab (MIL)
I have been the Network Administrator for MIL since 2005. I am primarily responsible for maintaining an Apple XServe server with web, mail, domain, and file share services, and am currently transitioning the server to a 16-core server with four Linux and Windows virtualized servers. I manage a Windows 2008 Server for SubjuGator, which runs Subversion version control system, file share services. I administer and keep running all of the computers (15) in the lab.

Network-Centric GPS Sensor for Autonomous Vehicles
My senior design involved turning an OEM GPS module into a network-centric smart sensor for autonomous vehicles. A webserver, JAUS service, and the Decentralized Software Service Protocol (DSSP) were implemented on an 8-bit microcontroller.

Sir Vide surveying robot
During the summer of 2007, I designed a laser surveying robot with camera and compass feedback.

Employment History
Electrical Engineering Internship, August 2008 – December 2008
Evaluated test procedures for electronics subsystems, designed an automated test fixture, preformed system trade studies
Lockheed Martin Maritime Systems and Sensors, Riviera Beach, Florida

Lightning Research Lab Assistant, May 2008 – August 2008
Established lightning monitoring station and prepared conference presentations for the Lighting Research Laboratory.
University of Florida, Gainesville, Florida

Integrated Product and Process Design Engineer, January 2008 – May 2008
Hired by the University to implement a position/orientation microcontroller for a robotic arm.
University of Florida, Gainesville, Florida

Information Technology Internship, May 2004 - August 2004
Administered computers and network on a 5000+ node network for a national healthcare company.
Sheridan Healthcare Corporation, Sunrise, Florida

Activities and Achievements
IEEE National Member, 2003 – Present
AUVSI Student Member, 2007 – Present
Boy Scouts of America, 1992 – 2008. Earned the rank of Eagle Scout at the age of 13.
National Speleological Society, 2003 – Present