# Sean Thomas Burke

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## Education

**University of California, Irvine** **June 2013**

- Bachelor of Science in Electrical Engineering **GPA: 3.216**
- Minor in Informatics & Computer Science
- Minor in Management

## Technical Skills

**Software Skills**

- Languages: *PHP, Actionscript 3.0, MySQL, Java, C++, Visual Basic, .NET VHDL, Matlab, Python*
- Websites: *seantburke.com, sigmanuuci.com*
- IDEs: Visual Studio, *EagleCAD, Terminal, Eclipse, Xcode, Xilis, PIClab, PSPICE*
- Projects: *PHP Libraries, Directory Organizer, Database Management*

**Electrical Skills**

- Instruments: *Soldering Iron, Digital Multi-Meter, Oscilloscope, Microcontrollers*
- Past Projects: *2-way Amplified Intercom, 3-bit Flash ADC,*
- Current Projects: *RFID Device, Desktop Visual Basic App, Web App,*

## Experience

**MIDAS Laboratory (Li-Bachman Lab)** *Irvine, CA* **June 2010 - Present**

***Undergraduate Researcher*** Sep 2010 - Preset

- Developing RFID technology for improving the medical industry
- Designed hardware and programmed microcontrollers
- Designed PCB boards with EagleCAD
- Writing a desktop application using API from ST for communication with RFID board

**Thales Avionics** *Irvine, CA* **June-Sept 2010**

***Systems Engineer Intern*** June -Sept 2010

- Performed Final Systems Acceptance Testing on flight systems before the customer
- Gained knowledge in large scale networks; specifically In-Flight Entertainment
- Worked with Airbus and Boeing configurations for major airline companies
- Troubleshot entire systems for wiring issues, network problems and power failures
- Innovated a new management process to improve testing productivity

**Claire Trevor School of the Arts** *Irvine, CA* **Oct 2008–Present**

***Student Technician/IT Consultant*** Oct 2008–Present

- Assisting faculty and students with computer-related, technical problems
- Providing technical service to all staff and students in the Arts Department
- Improving skills in computer assembly and knowledge in computer repairs
- Improving skills in communication and customer service

## Activities

**Engineering Student Council** *Irvine, CA* **Sep 2009–Present**

***Cabinet Member - Corporate Affairs Co-Chair*** Apr 2010–Present

- Hosting the annual EngiTECH Career Fair for the Henry Samueli School of Engineering
- Managing an event for the Engineering Student Council with revenue of $25,000
- Contacting companies and sponsors to donate and attend the EngiTECH Career Fair
- Managing a committee of 20 members to delegate duties
- Improving skills in database management, event planning and customer relations
- Improving skills in professional networking, team leadership and management

**Other Organizations**

- Engineers Mentoring the Future – *Mentor for 2 Mentees* Sep 2010–Present
- Institute of Electrical and Electronics Engineers – *Active member* Jan 2010–Present
- Sigma Nu Fraternity, Inc. – *Historian* Sep 2008–Feb 2010
- Sigma Nu Fraternity, Inc. – *Webmaster for a 350+ user login PHP website* Feb 2009–Feb 2011

## Awards

**Academic Awards**

- Oracle Community Impact Grant – *Award of $4,650.00* Mar 2010
- Fastest Circuit Design in EECS70B Lab – *DC to AC to DC Circuit* April 2010