Jake R. Tsuyemura

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Objective

Obtain a full time working position in the Electrical Engineering field where I can effectively contribute to a progressive organization.

Education

Bachelor's of Science in Electrical Engineering
University of Hawaii, Graduated in May 2014   Major GPA: 3.67

Relevant Coursework

Semiconductor Physics   Intoduction to Programming in C
Microwave Engineering   Digital Systems and Computer Design
Engineering Electromagnetics   Radar, Sonar, Navigation Systems
Microelectronic Circuits   Electric Power Systems

Work Experience

University of Hawaii at Manoa, EE 323 Lab Teaching Assistant   2014 - Current
- Directing students to simulate and construct circuits with discrete components
- Responsible for teaching Mosfets, BJTs, and Amplifier configurations to students

University of Hawaii at Manoa, EE 211 Lab Teaching Assistant   2014 - Current
- Assisting students with oscilloscopes, power supplies and other lab equipment
- Responsible for grading, office hours, addressing the class, directing the lab

Smithsonian Submillimeter Array, Akamai Intern   Summer 2013
- Design PID temperature control system with $1\,°C$ tolerances
- Run control simulations using Matlab PID toolbox
- Performed professional presentation of results during internship

Project Experience

Smart PowerStrip Project, Team Lead   Spring 2014
- Responsible for dividing tasks between a group of two and setting deadlines
- Developed an Android application capable of communication via Bluetooth
- Assembled energy monitoring hardware to interface with Android application

Graphene Synthesis Project, Team Lead   Fall 2012
- Researched a new and promising material for future electronic devices
- Performed an experimental procedure to synthesize graphene using a Disc Drive

MicroMouse, Team Lead   Spring 2011
- Designed and built an entry level MicroMouse to navigate a 16x16 maze
- Soldered discrete components to a PCB and tested connections
- Assembled basic circuitry and troubleshooted design problems

Skills

Computer Languages: C, Java, Matlab, Bash, Latex, Verilog, HTML5, CSS
Other: Logicworks, Xilinx Webpack, Cadsoft Eagle PCB
Hands On: Soldering, Bandsaw, Drill Press, Lab Equipment

Extracurricular Experience Achievements

Semifinalist, PACE Business Plan Competition, UH Manoa	2014 - Current
Deans List, College of Engineering, UH Manoa	2013 - Current
Historian, IEEE Student Branch, UH Manoa	2013 - Current
Board Member, Electrical Engineering Student Advisory Board	2013 - Current
General Member, Entrepreneurs Club, UH Manoa	2013 - Current
General Member, IEEE Student Branch, UH Manoa	2010 - Current
Robotics Club President, Honokaa High and Intermediate School	2007-2009
Class Valedictorian, Honokaa High and Intermediate School	2009

Personal Project Experience

Holmescoming Project, Arduino Breathalyzer   Fall 2013
- Designed and constructed a breathalyzer to visualize alcohol levels

Personal Website, www.jaketsuyemura.com   Summer 2014
- Adjusted size and formatting of content in HTML5 and CSS
- Designed and edited layout from basic template