Leo Szeto

(415) 513 – 7883 ● leo.szeto@engineering.ucla.edu ● www.leoszeto.com

US Citizen

Education

University of California, Los Angeles (UCLA), Electrical Engineering and Computer Engineering B.S '12 — Cumulative GPA: 3.23
Skyline College (San Mateo, CA), **City College of San Francisco** (San Francisco, CA) — Cumulative GPA: 3.70

Engineering Skills:

CS: C/C++, Python, QT, PHP, mySQL, CSS, Javascript, Linux, Matlab, LabVIEW, xCode (iOS/Swift), Unity
Automation: PLC (RSLogix, Siemens Step 7), SCADA (FactoryTalk)
EE/CAD: Eagle, SMT Soldering, AutoCAD, PSpice, Altium, Cadence, Multisim
Productivity: Office Suite, Photoshop, LaTeX, Outlook

Employment

Walt Disney Imagineering – Glendale, CA | Shanghai, China — May 2012 – Present
Ride Controls Software Engineer
- Develop large PLC software (1500+ I/O points) for a state-of-the-art, high throughput Roller Coaster at Shanghai Disneyland.
- Lead a team of engineers and operators to coordinate testing and adjustment of safety critical control system, working in a foreign, dynamic, and time sensitive environment.
- Design and implementation of Park-wide HMI system, managed a successful migration of responsibilities to local engineer while maintaining consistency and scope.
- Develop detailed test documentation, manage version control system, and maintain auxiliary SCADA systems.

Associate Ride Controls Engineer
- Received training in HMI systems and designed HMI control consoles to be implemented park-wide
- Oversaw the implementation of hardware mock-ups to test industrial sensors in SFX environments
- Created Layouts in AutoCAD for operator control consoles according to specifications and standards
- Researched and communicated with vendors to provide recommendations on proximity sensors selection and implementation.

Topanga Technologies - Canoga Park, CA — June 2011 – April 2012
Electrical Engineering Intern
- Designed new and existing digital circuit sections of product, create internal test circuits.
- Implemented automation tools for data capture and testing.
- Performed measurements and tests using RF equipment.
- Used machine shop equipment to prototype enclosures.

Symantec Corporation - Culver City, CA — June 2010 - June 2011
Programming Intern
- Developed internal web frontend for data aggregation and visualization using PHP, Amcharts, and MSSQL.
- Performed light IT maintenance duties.
- Audited software and generated a report for a known potential security vulnerability.

NSF REU 2009 - Auburn University, Alabama — May 2009 - July 2009
Undergraduate Research Intern
- Created a machine learning algorithm and GUI to characterize canine motions in high noise data.
- Worked on a multidisciplinary (EECS, ME) project in autonomous command and navigation of a trained K-9.
- Wrote professional quality research articles, posters, and presentations in LaTeX.

RISE REU 2008 - Technical University of Dortmund, Germany (Dept. of Logistics) — June 2008 - August 2008
Research Intern (40 - 60 hrs/week)
- Worked as a programmer to create a software platform for solving dynamic vehicle routing problems.
- Researched heuristic methods in the optimization of delivery routes with constraints.
- Wrote a technical paper on VisRoute, the software platform developed.

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Extracurricular Activities/Leadership experience

Institute of Electrical and Electronics Engineers (IEEE), National Speaker April 2013 - Present

- Developed and delivered a series of keynotes designed for engineering students and engineering organizations
- Talks include *Creating a personal Brand*, *Building a high performance student organization,* and *Everyday Leadership for Engineers*

Institute of Electrical and Electronics Engineers (IEEE), UCLA Chapter January 2010 – May 2012

President (2011 - 2012), OPS Lead, Projects Manager, Micromouse Lead (2010 - 2011)

- Created the OPS Program, a successful year long project to teach hands on electronics to incoming freshmen and sophomores.
- Fundraised over $32000 in chapter funds from student, department, and industry sources.
- Managed/Mentored over 100 students in various IEEE projects and competitions in robotics.
- Guided the creation of a web based workflow management tool to assist in managing the chapter.
- Coordinated the supply logistics and upkeep of the UCLA IEEE student electronics lab.
- Led the chapter to win UCLA Engineering student group of the year for 2 consecutive years (2010 – 2012)

SkyTanX January 2011 – April 2011

Developer

- Created a Skype enabled telepresense device that allows an authorized user to communicate and send movement and work commands to a robot platform through the Skype API.
- Wrote image processing algorithms in Python to allow the user to control the robot using a virtual joystick
- Robot was showcased at the UCLA EE Open house to prospective incoming students

Pomegranate June 2011 – April 2012

Developer

- Professional level micromouse with advanced features using an original PCB design and SMT components
- Has bluetooth communication capability, Gyroscopes, Atmel XMega CPU, 4 sensor ports, encoders, charging port
- Measures 80mm x 80mm.

Project Atlas June 2011 – April 2012

Developer

- High performance modular Natcar design for educational and competition purposes.
- Worked to create an overarching software platform and hardware jigs to provide characterization capability to sensors
- Created a high performance BLDC motor controller

Robomagellan December 2009 - April 2010

EE Project Lead

- Competed in the Robomagellan competition at the annual Robogames in San Mateo (1st Place)
- Created a graphical simulation system to aid in developing searching algorithms

Portfolio/Noteworthy achievements

Portfolio page: http://www.leoszeto.com

- Descriptions, pictures, and resources for my previous personal and research projects

IEEE OPS Wiki: http://lab.ieeebruins.org

- Frequently used education wiki containing a list of my electronics tutorials for the UCLA IEEE OPS Program

UCLA School of Engineering, Featured Students for 2012:
http://www.engineer.ucla.edu/visitor-links/current-students/student-profiles/LeoSzetoEE

- Nominated by the EE Dept to represent the EE undergraduate community as an exemplary student

Engineering Endeavors - ENGR185EW

- Students were asked to come up with product ideas and create a detail product development plan for review
- My concept, Mobell: Smart Doorbell system, received the highest rating for its design.