

Leo Szeto

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1480 North Clybourn Ave, Burbank, CA, 91505

US Citizen

Education

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

Relevant Skills:

Software: C#/C/C++, UML, Python, SQL, Linux, Unity, Xamarin, PHP, Machine Vision

Controls: Allen Bradley RSLogix, Siemens S7, Beckhoff CX, SCADA, Networking, Modbus, Electronic lab equipment

Productivity: Office Suite, Photoshop, LaTeX, Outlook

3D Modeling: AutoCAD, Blender, Maya

Employment

Sep 2019 – Present

Nusano – Los Angeles, CA

Director, Control Systems & Electrical Engineering

- Responsible for managing Nusano employees and working with external teams to advance Nusano's development of a state of the art particle accelerator facility.
- Build cross functional teams to develop Nusano's in-house engineering capabilities and anticipate personnel needs.
- Work with other departments to coordinate project efforts and set the overall direction.
- Review drawings and provide high level technical guidance.

Senior Control Systems Engineer

- Responsible for the design, fabrication, commissioning, and testing of all control system scope for a state of the art, commercial heavy ion particle accelerator for industrial scale production of medical radioisotopes.
- Work with cross disciplinary teams and stakeholders to create detailed design specifications and requirements
- Stakeholder to a variety of facility layout, electrical, and telecom efforts
- Oversee a team of Controls Electrical and Controls Software engineers to develop solutions.
- Oversee panel shop, IT, system builder, and outsourced software vendors to define scope and coordinate efforts.
- Champion best practices for Control systems development (CI/CD, UX, Test, Hardware)

Scientific Control Systems Engineer

- Design and Develop PLC software using IEC 61131 standard (Structured Text)
- Design Controls hardware and provide systems level analysis (Cable Schedule, Routing, IO Lists, Panel Loads)
- Configure networking equipment with VLANs and configure networked devices
- Oversee vendor SATs for software deliverables
- Lead FMEA efforts to identify, assess, and mitigate safety issues

Amada Miyachi – Monrovia, CA

Feb 2017 – Sep 2019

Software Control Systems Engineer

- Lead software engineer for Autoflow & Glovebox hermetic seam sealing systems.
- Development of C# and PLC code to control a multi-axis motion control system, inside a controlled gas environment.
- Directed the software feature roadmap, providing regular updates to managers and assembly staff.
- Advised project management on scope of work, time-lines, and technical details throughout the life of a project.
- Integration of automated software test tools and version control systems.

Codeate – Glendale, CA

July 2016 – Feb 2017

Founder/Software Engineer/Technical Creative

- Created small studio focused on immersive experiences using new software technologies in virtual and augmented reality.
- Drove creative and technical development of The Torus Syndicate, a virtual reality game written in C# using the Unity Game Engine. Responsible for the overall systems design and integration.
- Responsible for the implementation of front-end code and core game logic.

Walt Disney Imagineering – Glendale, CA | Shanghai, China

May 2012 – June 2016

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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.
- Developed specification of the full software system in UML with mentoring from senior engineering staff.
- 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, managed scope for in-house web tools, and maintain auxiliary SCADA systems.

Associate Ride Controls Engineer

- Received certified training from AB and Siemens in HMI systems; 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.

Extracurricular Activities/Leadership experience

Institute of Electrical and Electronics Engineers (IEEE), National Speaker

April 2013 - Present

- Created Open Project Space, a nation-wide program that supports IEEE student branches to build hands-on programming for IEEE student members.
- Developed and delivered a series of keynotes designed for engineering students and engineering organizations
- Talks include *Creativity Lab*, 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

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- Created a Skype enabled telepresence 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

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Portfolio/Noteworthy achievements

Author: Secrets to being a World Changer, published by IEEE Xplore (2016)

Recipient: 2015 IEEE Presidential Citation

- Awarded for contributions towards raising student professional awareness

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

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

Founder: IEEE OPS <http://lab.ieeebruins.org>

- Successful student lead program teaching students about electronics using hands-on projects.

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.