

McKenzie Campagna

Objective: Obtain an Electrical Engineering internship

contact

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Portfolio
renkiyo.github.io

LinkedIn

programming and modules

Verilog, Verilog Test
Bench design, C/C++,
Assembly, Matlab &
SimuLink, PSpice, PCB
Designing (Eagle),
Java

hardware systems

Tiva C Series
TM4C123G

Education

2011–Now **Bachelors of Science** in Electrical Engineering San Francisco State University
Specialization in Power and Digital Design
• Expected graduation: Spring 2016 (GPA: 3.14)

Projects

- 2016 **Solar Power Converter** San Francisco State University
- Currently designing the schematic for a solar power converter, which will convert solar energy from a PV array into electrical energy for a utility grid
 - Utilize a DC to DC Boost converter, a DC to AC Boost inverter and an MPPT controller in order to maximize the power efficiency of the system
- 2015 **Audio Headphone Amplifier** San Francisco State University
- Designed a Printed Circuit Board for a low-noise audio headphone amplifier, including the system power supply, a two-stage amplifier circuit with discrete output stage, input overloading and output short protection, and panel mount user controls.
 - Generated Gerber files for manufacture, searched and sourced parts to meet mechanical and electrical specifications, and populated, soldered, and tested design.

Experience

- 2013–Now **SFSU School of Engineering Stockroom** San Francisco, California
Student Assistant
- Advised students on and helped check out the appropriate supplies for students' laboratory and project related work in the engineering dept.
- 2012-2013 **SFSU Biomechatronics Research Laboratory** San Francisco, California
Student Research Assistant
- Manufactured parts for the Haptic Paddle project by using the department laser cutter
 - Researched past designs of wrist rehabilitation robots from various universities as part of the Wrist Gimbal project

Research Publications

- 2013 **Paper** ICORR
- J. A. Martinez, P. Ng, S. Lu, **M. S. Campagna**, O. Celik, "Design of Write Gimbal: a forearm and wrist exoskeleton for stroke rehabilitation," in *Proc. IEE International Conference on Rehabilitation Robotics*
- 2013 **Paper** ASEE
- N. P. Rentsch, S. Dusheyko, **M. S. Campagna**, O. Celik, "A low-cost dynamic plant and data acquisition system for laboratory courses on control systems and mechatronics," in *Proc. American Society for Engineering Education Annual Conference and Exposition*