McKenzie Campagna

Objective: Obtain an Electrical Engineering internship

contact

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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 Digital Design and Computers

- Expected graduation: Spring 2016 (GPA: 3.14)

PCB Projects

2015 **Audio Headphone Amplifier** — San Francisco State University

- Layout and 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.
- Coordinated between the engineering professors in order to set-up laboratory equipment for experiments
- Helped to set-up and organize department functions such as faculty meetings, alumni networking events and the annual graduation

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
- Helped research and identify the appropriate motors for the Wrist Gimbal project based on the robot's specifications, such as degrees of freedom and the required output torque for the device

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*