

Levi Miller

M.S., M.Ed.

San Francisco Bay Area

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Education

M.S. MATERIALS SCIENCE

UC Santa Barbara, 3.73 GPA

Chabinc Research Group

Mar 2014

M.ED. EDUCATION

UC Santa Barbara, 4.00 GPA

Knowles Teacher Fellow

SST: Physics, Industrial & Technology

Sep 2017

B.S. ENGINEERING PHYSICS

Colorado School of Mines, 3.80 GPA

Magna Cum Laude, Dean's List

May 2012

Skills

Proficient in:

- **Python**
- **HTML, CSS**
- **JavaScript**
- **Git**

Familiar with:

- **C/C++**
- **React**
- **SQL**
- **Unix**

Strengths

- Product design
- Project management
- System design
- Circuit design and implementation
- Manual & CNC machining
- Spanish interpretation

Work

MECHATRONIC ENGINEER AND INSTRUCTOR

@ **Dos Pueblos Engineering Academy**

Aug 2017 - Present • Santa Barbara, CA

- Develop, deliver curricula for computer-aided design, programming, and engineering classes for 300 students
- Mentor 100 students in product design and manufacturing of professional science and engineering exhibits for MOXI and the San Francisco Exploratorium
- Close out projects by machining, wiring, programming, and troubleshooting components and assemblies

STEM INSTRUCTOR

@ **Upward Bound Program**

Summer 2014 • Los Angeles, CA

- Develop and deliver math and science courses for high school students from lower-performing schools in the Los Angeles Unified School District

GRADUATE RESEARCH ASSISTANT

@ **UC Santa Barbara**

Sep 2012 - Mar 2014 • Santa Barbara, CA

- Electronically characterize organic materials
- Fabricate test devices for organic semiconductors

Projects

ARDUINO VISUALIZER WEB APP

A site for teaching programming that converts IDE input into GIFs to simulate an Arduino with hardware

RASPBERRY PI HABITS WEB APP

A site that tracks habits and automatically reflects activity by syncing an online heat map with a local grid of LEDs

DIGITAL MUSIC BOX EXHIBIT

A mechatronic song composer that lets users mechanically program music with customizable digital playback