

# 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*

*Noyce Scholar*

*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

## Certifications

### Computer Science (CS50)

Harvard University

### React Fundamentals

[TylerMcGinnis.com](http://TylerMcGinnis.com)

Complete JavaScript,  
Complete Python, Responsive  
Websites with HTML5/CSS3

Udemy

## 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 (native)

## Work

### MECHATRONIC ENGINEER & PROGRAMMING 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 (PHD CANDIDATE)

@ **UC Santa Barbara**

**Sep 2012 - Mar 2014 • Santa Barbara, CA**

- Electronically characterize organic materials
- Fabricate test devices for organic semiconductors
- Co-authored 3 publications

## 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

**TO VIEW ALL PROJECTS IN DETAIL,**  
please visit [www.levimiller.me](http://www.levimiller.me)