



Levi Miller

M.S., M.Ed.

Relocating to San Francisco Bay Area

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Education

CERTIFICATE, CS50: INTRO CS

Harvard University via EdX

Jan 2019

M.S. MATERIALS SCIENCE

UC Santa Barbara, 3.73 GPA

Mar 2014

M.ED. EDUCATION

UC Santa Barbara, 4.00 GPA

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

Languages

SPANISH

Native Fluency

7-Year Resident,

Guadalajara, MX

Awards

KNOWLES TEACHER

INITIATIVE FELLOW

1/35 fellowships annually

Sp 2017 - Present

NOYCE SCHOLAR

Fa 2016 - Sp 2017

LACY FAMILY SCHOLAR

Fa 2008 - Sp 2012

Software

Proficient in:

• **PYTHON**

• **ARDUINO**

• **HTML / CSS**

• **UNIX**

Familiar with:

• **JAVASCRIPT**

• **C**

• **SQL**

• **GIT**

Skills

- Public speaking, presentation
- Lesson planning, curriculum development, & differentiation
- Electronics & instrumentation
- Manual & CNC machining
- Product design & direction
- Spanish interpretation / translation

Work

Engineering Teacher

@ **DOS PUEBLOS ENGINEERING ACADEMY**

AUG 2017 - PRESENT • SANTA BARBARA, CA

- Develop and deliver curricula for computer-aided design and programming / engineering classes.
- Mentor students in product design and manufacturing of professional science / engineering exhibits for museums and conferences.
- Translate documents, interpret at events, meet with Spanish-speaking families, and give Spanish tours of facilities and projects.

STEM Instructor

@ **UPWARD BOUND PROGRAM**

SUMMER 2015 • 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.

Projects

2019

• **(RASPBERRY) PI HABITS WEB APP**

Role: Full-Stack Developer. A site that tracks habits and reflects activity in an LED grid.

2018

• **DIGITAL MUSIC BOX PROTOTYPE**

Role: Project Director. A device for mechanically programming music with digital playback.

• **BERNOULLI EXHIBIT**

Role: Project Manager. A museum installation that makes a game of the Bernoulli effect.

• **NEWTON'S CRADLE EXHIBIT**

Role: Project Manager. A MOXI installation that demonstrates conservation of momentum.

2017

• **LIGHT & KINETIC SCULPTURES**

Role: Project Manager. Programmable sculptures which exhibit light and Moiré patterns.

Volunteer

• **FRONT-END WEB DEVELOPER**

Organic Soup Kitchen

Jun 2018 - Present

• **HOST**

Chip Camp UCSB

Nanofabrication Facility

Apr 2013 - Mar 2014

• **GRADUATE OUTREACH**

Materials Research Lab,

UC Santa Barbara

Sep 2012 - Mar 2014