

# BRIAN TICE

Phone: 714.514.4225  
bjtice@gmail.com

## OBJECTIVE

**Electrical engineer and touring Musician** with a background in embedded systems and C++ programming, seeking to attend graduate school in a challenging program that merges my engineering experience with my artistic passion.

## EXPERIENCE

**Electrical Engineer** San Francisco, CA March 2008 – September 2013  
*Pinnacle Technologies*

Manufacture and design of sensitive electronic tilt meters. Troubleshoot and repair both analog and digital circuit boards, motors, sensors, PIC based and MSP430 based systems. Developed test and pneumatic calibration software for geomagnetic compass subsystem written in C++.

**Instructor** San Francisco, CA November 2012 – Present  
*Tech Shop SF*

Lead classes teaching circuit design and programming of Arduino micro-controller based systems to students at Tech Shop. Help students brainstorm for prototyping projects. Develop prototypes for clients.

**Electrical Engineering Intern** Santa Cruz, CA July 2007 – December 2007  
*Plantronics*

Developed an audio processing suite used to evaluate some of Plantronics' most sophisticated DSP algorithms. Spent extended amounts of time working with windows-based software such as LabView, MATLAB, Adobe Audition, and Visual Audio.

**Co-Founder** San Francisco, CA November 2008 – Present  
*Sol Diamond LLC*

Founding member and drummer of signed band 'Sleepy Sun' that has performed concerts in 17 countries. Sol Diamond is Sleepy Sun's self owned publishing company.

## EDUCATION

**UC Santa Cruz** Santa Cruz, CA September 2003 – June 2007  
B.S.E.E. with honors. Minor: Computer Engineering

Honors: Executive Officer in the School of Engineering Honor Society (Tau Beta Pi), awarded *comprehensive honors* for outstanding senior thesis.

Activities: Member of IEEE, Taken Graduate Level Coursework, DEEP Peer mentor for engineering students transferring to UCSC from a community college, designed a MEMS microphone. Gave a MATLAB tutorial for engineering students.

**Cambridge University** Cambridge, England June 2006 – August 2006

Studied International Economics and Italian Renaissance Art. Completed a research project on the mathematics behind the Duomo, on site in Florence under direction of a fellow of The Royal Society of Arts.

## RELEVANT COURSEWORK AND SKILLS

- Programming Experience: C, C++, HTML, Java, JavaScript, MATLAB, Assembly, Excel, Python, Arduino, Processing.
- Course Work: Analog Electronics, Microprocessor System Design, MEMS Design, Partial Differential Equations (Graduate Level), DSP theory, Digital Design, Chaos Theory

## OTHER

- Basic Spanish speaking and writing skills, Ubuntu LINUX skills, Raspberry Pi experience
- Surf, Skateboard, Snowboard, Mountain Bike, Photography, Most recently Run and Cycle