

# Eric A. Cioffi

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## Education

Aug 2017 – Present      University of Southern California, Viterbi School of Engineering: B.S. in Electrical Engineering, Minor in Physics, projected May 2020 — 3.2 GPA  
Sep 2016 – Jun 2017    University of California, Santa Cruz, Jack Baskin School of Engineering — 3.8 GPA  
Aug 2012 – May 2016    Albert Einstein High School, Kensington, Maryland

## Experience

Oct 2017 – Present      Member, USC Formula SAE Racing Team, Chassis Division  
                                    — Using NX11 CAD, helped design movable pedal box to allow comfortable vehicle operation by drivers of different heights.  
Nov 2016 – Jun 2017    Volunteer, UC Santa Cruz Bike Coop  
                                    — Instructed and assisted clients; did everything from maintenance to extensive repairs.  
Jul – Aug 2014          Staff Assistant, TIC Summer Camp, Bethesda, Maryland  
                                    — Tutored children to facilitate their creation of games in Logo and Java.  
May – Jul 2014          Wilderness Program, Grand Staircase-Escalante National Monument, Utah  
                                    — Cultivated self-reliance absent modern technology, e.g., lit fires with self-made bow drill.

## Selected Projects (<https://github.com/ecioffi>)

2017    VHF/UHF Antenna  
          — Designed and built frame to house antenna elements in position and to stand in attic. Used frequency-optimized antenna design that receives 8VSB modulated signals from 45 miles away.  
2017    Custom Bicycle Wheel  
          — Utilizing offset-drilled rim and modified hub, designed and built wheel to fit 11-speed cogset in 7-speed dropout spacing.  
2014    2048 AI  
          — Using brute-force expectimax with minimalist evaluation function, AI wins fad phone game every play.  
2012    Square Root Algorithm  
          — Developed and tested algorithm that calculates square roots with only addition and bitwise operations.

## Honors

2017    University of California, Santa Cruz Dean's List, Winter and Spring Quarters.  
2016    Albert Einstein High School Mathematics Award, given to single Senior selected by department head.

## Skills

Languages                    C\C++, java, python, Bash,  $\LaTeX$ , English, Japanese  
Notable Coursework      Internet of Things; Computer Systems and Assembly Language; Linear Circuits  
Independent Learning      

- Self-study of math and C++ enabled skipping AP Calculus AB in high school and testing out of EE155, Introduction to Computer Programming, at USC.
- Started in bicycle work by disassembling then reassembling old bike.
- Learned automotive repair from Internet and factory service manual for 1992 Maxima.