

# Joe Eckstein

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716 Breezy Way, Lititz, PA 17543

Learner • Deliberative • Harmony • Intellection • Relator

## EDUCATION

### CAL POLY

BACHELOR OF SCIENCE

ELECTRICAL ENGINEERING

Grad. December 2018

San Luis Obispo, CA

College of Engineering

Dean's List (Spring 2018)

Cum. GPA: 3.199 / 4.0

Major GPA: 3.217 / 4.0

### MARIA CARRILLO HIGH

Grad. June 2014

Santa Rosa, CA

## LINKS

Github:// [joeeckstein](#)

LinkedIn:// [joseheckstein](#)

Website:// [jeckstei.com](#)

## COURSEWORK

### UNDERGRADUATE

- Control Systems
- Fiber Optic Communications
- Remote Sensing
- Wireless Communications
- Microcontrollers
- Digital Design (*Teaching Assistant*)

## SKILLS

### PROGRAMMING

Matlab • Python • VHDL •  $\LaTeX$   
C (Arduino and MSP432) • Ladder •  
TwinSAFE • TAIT Navigator

### HAM RADIO

KK6QCB

## AWARDS

- May 2018 - **Outstanding Student Employee of the Year** - Cal Poly ASI
- November 2013 - **Eagle Scout Mentor Pin** - Ethan Renouf, Eagle Scout of Troop 121
- April 2013 - **Eagle Scout** - Boy Scouts of America, Troop 121

## EXPERIENCE

### TAIT | CONTROLS TECHNICIAN

April 2019 – Present | Lititz, PA

- Comprises part of the field engineering and installation team, ultimately implementing technology on site for the customer
- Fulfills shop testing and setup responsibilities, especially for complex elements
- Plays key technical role throughout project lifecycle
- Communicates frequently with rest of project team about tasks and risks
- Maintains a basic understanding of all integration-related technical fields
- Develops an expert knowledge of one or more integration-related technical fields
- Builds, reviews, and maintains TAIT Navigator Configurations and Safety Projects
- Establishes and cultivates good relationships with clients, stagehands, electricians, ironworkers, project managers, and many other personnel
- Travels frequently to job sites both domestically and internationally
- Works closely with the Service & Support department about post-project work
- Promotes and contributes to internal standards and processes

### CAL POLY ASSOCIATED STUDENTS INC. | AUDIO VISUAL TECHNICIAN II

September 2016 – December 2018 | San Luis Obispo, CA

- Setup and teardown of audio visual equipment.
- Supervision and training of fellow technicians.
- Performing regular equipment maintenance.
- Client communications.
- Implementation and custom development of ERP tools.

November 2014 - September 2016 | Audio Visual Technician I

- Setup and teardown of audio visual equipment.

## PROJECTS

### WINDOW FAN CONTROLLER | PERSONAL PROJECT

September 2017 – December 2018 | San Luis Obispo, CA

Designed and built an Arduino based system to regulate the temperature of a room using a window fan by comparing the indoor, outdoor, and desired temperatures.

### REMOTE LUX METER | EE 409 ELECTRONICS DESIGN

September 2017 – December 2017 | San Luis Obispo, CA

Team designed and breadboarded a remote lux meter using ultrasonic signal to encode the luminosity and transmit it to the receiver.

### SCHEDULED FISH FEEDER | CPE 329 MICROCONTROLLERS

March 2017 – June 2017 | San Luis Obispo, CA

A system was designed to allow a user to select up to three times a day to feed a fish based around the TI MSP432 platform. A user could view the last time that the fish was fed and manually feed the fish.

### RAT CENTRAL PROCESSING UNIT | CPE 233 COMPUTER DESIGN

Jan 2016 – March 2016 | San Luis Obispo, CA

Designed a processor using VHDL that executes assembly level programs on the Basys3 FPGA, culminating in a version of Connect4 using a binary number input and a VGA display.

### IFIXIT REPAIR GUIDE | ENGL 149 TECHNICAL WRITING

March 2015 – June 2015 | San Luis Obispo, CA

Our team produced a guide for the dis-assembly and repair for a Ryobi P202 power drill for the iFixit website. This included formatting, writing, and photographing of each of the steps before publishing the guides on iFixit's website.