

Jared Foster

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Education

Cal Poly San Luis Obispo

BS IN COMPUTER ENGINEERING

GPA: 3.4

San Luis Obispo

Sep 2017 – Jun 2021

Experience

Rantec Power Systems

SOFTWARE ENGINEER

- Developed microcontroller firmware using C targeting AVR MCU
- Created Python Tkinter GUI to interface with MCU using IPMI protocol
- Created Python GUI application allowing production to automatically program MCUs
- Created Python script to find all unsigned ECNs and generate a report
- Created Python script to control electronics lab equipment to automate data collection and testing
- Created Python script to automatically apply customer coding standards to C firmware

Los Osos, CA

June 2021 – Present

Rantec Power Systems

SOFTWARE ENGINEERING INTERN

- Developed test automation software using Python unittest
- Created and executed formal test plans based on software requirements
- Developed automated solution to create Excel based test reports

Los Osos, CA

April 2020 – June 2021

Cal Poly Adventure Club (Unpaid)

VICE PRESIDENT

- Lead student camping, hiking, and backpacking trips
- Managed club logistics and organization

San Luis Obispo

Sep 2019 – March 2020

Skills

Programming Languages: C, Python, Java, JavaScript

Technologies: MongoDB, ExpressJS, ReactJS, NodeJS, Bootstrap, Tkinter, Linux, Nginx

Hardware Platforms: ATXMEGA MCU, MSP432 MCU, Raspberry Pi

Equipment: Protocol analyzers, I2C adapters, electronics bench equipment

Soft Skills: Technical writing, public speaking, group coordination, software unit testing

Projects

MERN Blog

CREATED AND DEPLOYED A FULL STACK MERN WEB APPLICATION SERVED VIA NGINX HOSTED ON PERSONAL WEBSITE

MongoDB, ExpressJS, ReactJS,
NodeJS, NGINX

blog.jaredfoster.dev

Word Cloud Generator

CREATED AND DEPLOYED A STATIC WORD-CLOUD GENERATOR APP USING REACTJS AND D3JS

ReactJS, D3JS

cloud.jaredfoster.dev

Project Oasis

MENTORED AND ADVISED A TEAM OF CAL POLY STUDENTS TO CREATE A MESH-NETWORK IoT SMART IRRIGATION SYSTEM

ESP32, C

Respirator

DEVELOPED C FIRMWARE AND PYTHON HELPER SCRIPTS IN A RASPBERRY PI BASED WEARABLE RESPIRATOR TEAM PROJECT

C, Python

Hangman

CREATED COMMAND LINE HANGMAN WRITTEN IN C THAT USES A MARKOV CHAIN GENERATOR WRITTEN IN PYTHON TO GENERATE PUZZLES

C, Python