

# Oran Collins

Santa Rosa, California

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## Objective

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- Career opportunities to utilize my growing skills and passion in Software Development, Robotics and Product Design :

JavaScript	Node.js	Unity3D Game Development
Python	Docker	Photoshop/Illustrator
C#/C++	Linux	Product Design
Arduino	GitHub	Circuit Board Design
Bash	SQL	Raspberry Pi
Ruby/Rails	MongoDB	
HTML/CSS	Ruby	

## Employment Experience

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- Rapid Prototyping Engineer, Private Contractor : Dec 2020 – Feb 2021
  - Designed and build a self leveling RV bed
  - Took the project from rudimentary design sketch to a fully functioning prototype
  - Circuit Design, Arduino programming, Wood working, Hardware systems integration, 3d printing/modeling, created high quality,functional, and clean documentation
- Systems Administrator, Private Contractor : Dec 2020 – Feb 2021
  - MountainOS skillfully created a custom raspberry pi os image to be deployed at over 90 radio communications instilations on top of mountens all over califoria
  - Integrated multiple software tools, created working sd card image for consitant deployments
  - Deep knoleage of Linux administraction, Raspberry pi software instilation, created high quality,functional, and clean documentation
- Robotics Prototyping Engineering Intern : July 2020– Sept 2020

Successfully made a hardware device field test ready, for a startup farm agtech company. Completed rapid prototyping and quick implementations of algorithms to test on the goats in the field. Accomplishments include:

  - In 2 weeks, pushed the project forward passed the 90% mark, and made the prototype field testable on live goats
  - Wrote new algorithms, which had a direct and meaningful impact on the functionality of how the prototype interacted with the goats
  - For important undocumented components, established functional and beautiful documentation, which aided in communication, and made the transition to a new team smooth and effortless
- Tech Support, OchsLabs (part-time) : Nov 2019 – Mar 2020

Online Software Support position installing Low Energy Neurofeedback software on customer Windows machines. Built and maintained Windows images and troubleshoot installation scripts while providing direct customer phone support. Accomplishments include:

- Delivered on a special CEO requested project to rapidly prototype and build a Photonic stimulator using 3D printer and hand-built circuit boards. Led two-person team effort to design and build handheld medical device, circuit layout and design.
- Engineered and built a physical prototype to improve the company's medical device
- Updated and revamped software installation documentation for easier maintenance and accessibility
- Provide in-house IT field support for company's computers, printers and network
- Full Stack Developer, Wineglassmarketing : Feb 2019 - June 2019  
Team Lead of Software Developer group that provided web back end application support. Built internal tools on different platform web back ends using Ruby on Rails for CMS platform migration. Accomplishments include:
  - Successful migration of legacy orders, marketing and operations applications to newer integrated CMS platforms. Migration included 500 Rspec tests.
  - Conversion of team to utilize GIT commit strategy and regularity; and unit testing using Rspec.
  - Continual improvements in web app backend production deployment process; reducing failure rate from 1 out of 10 to 1 out of 30 installation failures.
- IT Technician, Santa Rosa Junior College (part-time) : Nov 2017 – Dec 2017  
Provided field technician support for campus computers, laptops, printers and network. Provided end-user training and support for College Faculty. Created procedural checklists to improve the quality and consistency of software installation for all Field technicians.
  - Assistaed with solving difficult installation issues for important and fustreated faculty with there broaken pc, and printers
  - Fielded computer diagnostics, printers and laptops
  - Imaged Dell computers : laptop and desktops
  - Created checklists to ensure proper and consistent software install procedures
- Computer Repair Technician, Mobile Kangaroo : Nov 2016 – Mar 2017
  - Performed Mac, Windows, OS installation, Software/Hardware/Network diagnostic, and repairs
  - Delivered customer service
  - Worked with a Point of Sales System
- Wine Bottler, Fairwinds Estate Winery (part-time) : May 2017 – July 2017
  - Balanced the work flow when bottling had hiccups
  - Efficiently put bottles onto fast moving bottling line
  - Implemented orderly pattern boxes of wine onto pallets
- Pool attendant, Lincoln Manor Association (part-time) : 2018

- I greeted and Verified each guest was allowed to use the pool
- I was responsible for the pool's setup, cleanliness, and chemical levels
- I made sure pool rules were followed; Insuring every guest felt safe and welcome
- Dishwasher, Wholefoods Sonoma (part-time) : January 2019 – Feb 2019
  - Ability to multitask and follow instructions under pressure
  - Maintained consistent hours, sacrificed personal time to get on top of work
  - Washed dishes and other items for cooks and servers in a timely manner
  - Established professional working rapport with kitchen staff
  - Sustained a thoroughly clean work area

## Expertise

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- Languages/Frameworks/Tools : JavaScript, Python, Node.js, Docker
- Languages : Bash, HTML, CSS, C#, Ruby/Rails, C++
- Software/Tools : Linux Command-line, Rails, Git, MongoDB, SQL, Golang, Flask, Express
- Skills : Photoshop/Illustrator, Photography, Video Editing
  - Product Design/Prototyping, Circuit board design, Unity Game Development, Excel, MS Word, Google Docs
- Open Source : p5.collide2d.js: collision detection library
  - Added major feature that converts point style to vector style, which opened up a interface to use the library using vectors, created a CI/CD pipeline using github actions to automatically package up the code on every code change, introduced new documentation, and ability to use CDN's with the library instead of downloading it from github manually every time a user wanted to use the library

## Education

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- Club President Computer Science Club : (2018)
- Introduction to Linux : (2018)
- Cisco Networking : (2016)
- Santa Rosa Junior College : Present - 2023
  - Pursuing a B.S. in Computer Science

## Personal Projects

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- Wall-E Robot : Small Bluetooth Controlled Tank Bot
  - Controlled over Bluetooth from a computer using software written in C/C++
- Packet Radio : Radio Data Transmitter

- Serial data communication up to a mile over radio waves using two Arduino microcontrollers
- Student Parking Lot Tracker : Hackathon 1th place prize College Track - North Bay Make-A-Thon 2017
  - Gave students a way to view the number of available parking spots left in the always packed parking garage
- Text2buy : Hackathon 4th place prize - SFhacks 2018
  - A Craigslist like posting app that only uses SMS texts, for places where high bandwidth mobile data is not available