

Micah Guttman - Senior, Energy Institute High School

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Cajun Navy Relief, Inc. 100% volunteer based nonprofit search, rescue, and relief organization whose mission is to save lives by responding to natural disasters.

IT Administrator (Volunteer Staff Member)

Fall 2018 - Present

Performance Tasks:

- Website maintenance (Wordpress on shared hosting)
- Solution/product information solicitation
- Nonprofit pricing solicitation
- Solution/product evaluation
- Website development (Grav CMS)

Project Involvement:

- ROIP and Radio solution evaluation and selection
- Migrating website to a VPS
- Developing new website based on Grav CMS
- Reevaluating current dispatch solution
- Selecting and deploying asset management solution
- Exploring idea of selecting and deploying LDAP compatible directory solution
- Reevaluating password manager
- Exploring the idea of selecting and deploying device management solution
- Designing secure, duplicate resistant, ID cards and implementing deployment solution to allow volunteers and volunteer staff to be issued ID cards

KPFT Pacifica 90.1 Nonprofit public radio with stations in several major cities.

IT Administrator (Volunteer)

Summer 2018 - Summer 2020

Performance Tasks:

- G Suite administration
- Website maintenance (Wordpress on shared hosting)
- Solution/product evaluation

Project Involvement:

- Selected planning implementation of VOIP phone solution to replace aging analog PBX while maintaining support for analog studio phones
- Selecting and deploying asset management solution
- Selecting and planning deployment of network solution to support multi-gigabit fiber from multiple AT&T routers

Harris County Constable's Office Precinct One

Summer 2020

As a student intern, I performed basic IT support tasks and conducted a building penetration test, where I was tasked with gaining access to secured facilities.

Abel Design Group

July 2021 - Present

As an IT contractor, I augment a managed service provider by providing basic on site IT support, advice, and labor.

Volunteer Student IT Assistant

Summer 2018 - Present

Performance Tasks:

- Provide basic IT support to staff and students
- Computer reimaging
- Install software on computers

Project Involvement:

- Selection and deployment of digital two way radios to replace analog radios
- Running AV equipment for presentations and exhibitions

Freshman Year 2018-19:

- FRC Robotics, Programming Subteam
- Computer aided design with onshape
- Creating engineering sketches
- Basic electronics with arduino and raspberry pi
- Basic woodworking
- Laser cutting
- 3D printing

Sophomore Year 2019-21:

- FRC Robotics, Electrical Subteam Captain
 - Lead teammates
 - Worked with other subteams to ensure subsystems complied with FRC electrical regulations
 - Secured and managed electrical components on the robot
 - Ensured the robot could support subteams' subsystems

Junior Year 2020-21:

- Environmental Sustainability Engineering
 - Developing environmentally sustainable solutions
- FRC Robotics, Programming and Electrical Subteam Captain
- Computer Aided Design
 - Advanced computer aided design with OnShape and Solidworks
 - Preparing for the Solidworks CSWA Exam
 - Preparing for the Solidworks 3D printing certification
 - Preparing for the OnShape certification exam

Senior Year 2021-21:

- Engineering Design and Presentation
 - Developing an open source public safety body worn camera
- FRC Robotics, Programming Subteam Captain, Senior Leadership
 - Training new talent
 - Programming a swerve drive robot
 - Assisting with team administration

LibreBadge

Winter 2019 - Winter 2020

LibreBadge is an open source ID badge solution developed and maintained solely by me as a replacement for my school's underperforming ID solution. LibreBadge uses python with the django web framework on the back end and uses some vue for the front end. LibreBadge is hosted on github and uses github pages with hugo for its website.

Skills

- Linux Administration
 - Command line Linux
- Windows Administration
 - Understanding of ActiveDirectory & Group Policy
 - Experience with the SCCM Management Console
- Asset Management
 - SnipeIT
 - TipWebIT
- Networking
 - Ubiquiti Unifi
 - Understanding of PFSense (Basics, no production use)
- Cloud, Hosting, and Development
 - Content Management Systems
 - Wordpress
 - Grav CMS
 - Hugo Static Site Generator
 - Web Hosting & Server Administration
 - Basic SQL
 - CPanel
 - Cockpit Project
 - Github Pages
 - Development
 - Visual Studio Code
 - HTML/CSS/JS
 - Basic PHP & Twig
 - Basic VueJS
 - Python & Python Django Web Framework development
 - Grav CMS Theme development
 - Git & Github experience
 - Java & FRC WPILib Java development
 - Cloud Services
 - DigitalOcean VPS deployment
 - G suite administration
 - Office365 administration
- Electronics
 - Basic soldering & electrical knowledge
 - Arduino & Raspberry Pi
 - Maintainable cable management
- Engineering
 - Computer Aided Design
 - Engineering design process, journaling, and engineering sketching
- Fabrication
 - CNC machining and 3D printing
 - Woodworking and metalworking
 - Power tool usage & solution assembly
- Commercial Radio
 - Licensed amateur radio technician
 - Understanding of DMR and P25
 - Understanding of trunked radio
- Penetration Testing (basic)