

TECHNICAL SKILLS

General	Slack, Google GSuite, Google Sheets, Microsoft Office, Airtable, Trello
IT	Windows Server administration, Meraki configuration and administration, Powershell, Google GSuite Administration, Network Troubleshooting, Windows
Software	Git/Github, Java, Apache TOMcat, Golang, Revel, National Instruments RoboRIO, Arduino, SQL, Windows batch scripting, Powershell
CAD/CAM	Autodesk Inventor, Grabcad, Onshape, InventorHSM, VCarve, Cura
Machines	Haas, Stratasys uPrint, WinCNC, Shoptable CNC, 3D printers

EXPERIENCE

The Palmdale Aerospace Academy, Palmdale, CA

Network Systems Administrator - June 2017 - July 2019

- Developed system and campus wide maintenance and service procedures
- Assisted in setup and configuration of a 2500 client device network with Cisco and Cisco-Meraki technologies
- Windows server administration, device specs and procurement
- Digital fabrication equipment support

Network Systems Technician - June 2015 - June 2017

- Developed and operated processes to provision and deploy over 2000 Windows and ChromeOS devices.
- Installation and maintenance of legacy wireless networking infrastructure
- Administered servers running Windows Server 2008
- Generated device specifications and procurement procedures

NASA Armstrong Flight Research Center, Edwards, CA

Intern - Instrumentation Branch - June 2015 - August 2015

- Designed test fixture in Autocad for thermal sensor evaluation and testing
- Wrote test procedures and oversaw functional testing process to characterize thermal and atmospheric performance of a thermal sensor

Intern - Operations Branch - January 2015 - May 2015

- Developed a calendar module for the DC-8 Operations Portal utilizing Java and Apache TomEE and Tomcat web servers

SMART Education, Palm Desert, CA - Robotics Instructor - January 2015 - May 2015

- Developed and coordinated a weeklong intro to STEM and robotics summer camp program
- Created introductory activities involving mechanical design, sensors, and Java programming

EDUCATION

Antelope Valley College - Mathematics / Computer Science

Fall 2013 - Spring 2016

- 56 units completed including 9 units in computer science and 20 in mathematics and physics

VOLUNTEER EXPERIENCE

FRC Team 399 Eagle Robotics, Lancaster, CA - Engineering Mentor

December 2019 - Current / August 2013 - June 2019

- Mentoring high school students in mechanical design in Autodesk Inventor, project management, and Java software development.

FRC Team 5012 Gryffingear, Palmdale, CA - Team Advisor / Lead Engineering Mentor

August 2013 - June 2019

- Coordinated with school administration to facilitate robotics program
- Mentored students in mechanical design, CNC machining, Project management, and Java programming
- Coached the team to 3 regional wins and a world championship title.

Robotics Event Volunteering - Event Director, Referee, Control Systems Advisor, Inspector, Webmaster

August 2013 - Current

- Volunteered at dozens of FIRST Robotics events around the Antelope Valley
- Held multiple technical and nontechnical volunteer positions to provide a positive experience for student participants

PERSONAL PROJECTS

- Currently maintaining a personal portfolio site powered by the Revel framework with Go with basic SQL database backend. (<http://www.jgermita.me>)
- Design and build combat robots for competition (<http://www.jgermita.me/level5>)
- Pioneered the use of Monte Carlo simulations-based analysis in competitive robotics.

AWARDS

FIRST Tech Challenge Compass Award

2014 Los Angeles Regional

The Compass Award recognizes an adult Coach or Mentor who has provided outstanding guidance and support for a team throughout the year, and demonstrates to the Team what it means to be a Gracious Professional.

I am the youngest person to receive this award at the regional level.