

# Joshua Booth

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## Education:

- McConnellsburg High School - McConnellsburg PA; Graduated June 2018
- Shippensburg University, B.S. for Computer Engineering; Graduating May 2022
- Fulton County Area Vocational Technical School's Computer Repair / Networking
- GPA: 4.04

## Work Experience:

- Central Fulton School District Help Desk Technician
  - Managed and completed help desk tickets for the past 3 years, troubleshooting and fixing teachers' and students' school and home computers
- United States Naval Research Laboratory Employee (SSEP program)
  - Interned for a summer working on the "Tri-service Synthetic Biology Project" where I used machine learning to identify promoter sequences and published a paper on the topic.
  - Hired full time over the summer working on gathering data for a paper I published at the end of the summer named "Machine Learning in Radio Frequency Communications."
- Phone Repair Technician
  - Replaced/repaired components of varying models of phones over the past two years.
- Website Manager for Buchanan Trail Sporters LLC
  - Consulted with a local business to create a website and manage the content over my senior year of high school.
- Agriculturalist
  - Grew various crops, advertised, and negotiated with various businesses to stock the produce.
- Lawn Care Professional

## Engineering Skills and Projects:

- Programmed serial communications using checksums between a Raspberry Pi and a specialized module for reading outputs of oil wells using C.
- Used machine learning library TFLearn in various applications at the Naval Research Laboratory in Washington D.C. as well as parsed numerous datasets for usage within the neural network using Python.
- Implemented home security using Raspberry Pi cameras to have motion detection and facial recognition using libraries in both Python and C++.

## Certifications/Achievements:

- CompTIA A+ Certified Service Technician
- OSHA Certified
- Eagle Scout
- Published Scientist
- Ranked 5th Nationally in SkillsUSA Competition for the Information Technology field
  - State champion and district winner in SkillsUSA Competition for the Information Technology field
- 2017 Pennsylvania State Track Meet 300m Hurdles Champion

References below

**References:**

- *Joseph Meszaros* - Mission Development Department of the Space Systems Development Division of the Naval Center for Space Technology Directorate  
Email: joseph.meszaros@nrl.navy.mil
- *Trey Morris* - Electronics Engineer, Space Systems Development Department, United States Naval Research Lab  
Email: Trey.Morris@nrl.navy.mil
- *Crystal Glee* - Computer Repair/Networking Teacher, Network Administrator for McConnellsburg High School  
Email: cglee@cfsd.info
- *Jason Carbaugh* - Network Administrator for McConnellsburg High School  
Email: jcarbaugh@cfsd.info
- *Shelly McMullen* - McConnellsburg High School Guidance Counselor  
Email: smcmullen@cfsd.info