



# Austin W. Miller

1992  
 Brandon, FL, USA

Titles: B.S. Physics  
 Languages: *English* (Native)  
*Spanish* (Basic)

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Personal Website & Socials

[Austin Miller .net](https://austinmiller.net)

<https://github.com/austinwille>

## PERSONAL STATEMENT

A highly motivated astrophysics graduate with a strong background in data analysis and programming. Adept at solving complex problems and eager to apply technical expertise in innovative ways.

## CURRENT PROJECTS

2024 **ctr+X**  
AUTOMATED VIDEO PROCESSING ·  
GitHub   
Created an advanced script to automate video editing by splitting long videos into concise, viral clips using PyAnnote. This command line script leverages open source large language models for transcription and audio segmentation, with editable parameters for different setups.

2022 **Minecraft Server Setup**  
SYSTEM ADMINISTRATION & NETWORKING · Home Lab   
Currently running a VirtualBox Ubuntu Server on an old Macbook to host a multiplayer Minecraft server. Configured DNS, TCP/IP, and port settings to optimize performance and uptime. Check us out!

2020 **Emergency Preparedness Guide**  
RESEARCH & TECHNICAL WRITING · Remote   
Authoring a comprehensive preparedness guide. Using L<sup>A</sup>T<sub>E</sub>X for professional formatting and including region-specific planning strategies for family.



## CURRENT EMPLOYMENT

2024–Present **ACD Connect**  
TECH SUPPORT SPECIALIST · Remote   
Providing remote tech support for a variety of issues, including troubleshooting hardware, software, and authentication problems. Priding myself in patient solutions for those not accustomed to the field.



2023–Present **Nips' Solutions**  
HEAD · Home & Travel   
Providing custom PC builds, troubleshooting, networking solutions, and electronics repair.

2020–Present **Mellow Mushroom**  
WAITER · Brandon, FL   
Very homely pizza restaurant. We know most of our customers by name, and I handle whatever they need (usually just pizza and beer)



### PROGRAMMING

I have a strong foundation in Python and web development, with experience in a variety of tools and technologies. My work spans scripting, database management, frontend frameworks, and experiments with machine learning, reflecting a versatile skill set and commitment to expanding knowledge.

- **Python Development:** Proficient in Python programming, with experience in data processing, analysis, and backend scripting. Familiarity with AI/ML libraries such as scikit-learn, TensorFlow, and PyTorch.
- **Data Analysis & Visualization:** Skilled in data analysis using Python libraries (pandas, numpy, matplotlib), with basic SQL for queries. Proficient in Excel for data management and visualization. Some familiarity with MATLAB and CAD software.
- **Programming Tools:** Experienced with VSCode, Sublime Text, Spyder, and Jupyter Notebooks for debugging, scripting, and creating interactive data presentations.
- **Foundational Machine Learning Knowledge:** Familiar with ML concepts and applications for data-driven problem-solving. Have future plans for this
- **Cross-Functional Collaboration:** Skilled in working with diverse teams to align on development goals and resolve technical issues efficiently.

## EDUCATION

Fall 2022 **Space Systems Engineering**  
M.S. (INCOMPLETE) · Johns Hopkins University   
Learned from APL professors during one semester of expensive courses before pivoting.



2020 **Physics**  
B.S. · University of South Florida   
A rigorous study of physical and mathematical laws; minors in Astronomy and Chemistry.



2017 **General Studies**  
A.A. · State College of Florida   
Completed foundational coursework and transfer degree.



2011–2013 **Pre-Engineering**  
· Santa Fe College   
Moved away; took classes; moved home.

## Achievements:

- Maintained a 3.47 GPA across 105 credits of advanced coursework (2015–2020).
- Earned Dean's List honors at Santa Fe College.

## PROFESSIONAL DEVELOPMENT

<b>Fall 2024</b>	Experiments with YouTube and short-form video content	Self-guided
<b>2024</b>	Extensive AI Tools Practice (ChatGPT, Sora, Canva, and more)	Self/AI-guided
<b>2021-2022</b>	AWS Cloud Practitioner Essentials	Amazon Web Services
<b>2021-2022</b>	IBM Data Science Professional Courses	IBM (Coursera)
<b>2018</b>	CS50	Harvard University (edX)
<b>Summer 2017</b>	HTML5 & CSS	W3C (edX)

## SOME RELEVANT COURSEWORK

- **Physics and Astronomy:** Statistical Mechanics, Quantum Mechanics I and II, Electricity and Magnetism I and II, Stellar Astrophysics, Galaxies and Cosmology, Advanced Lab
- **Chemistry:** Organic Chemistry I and II, Intermediate Inorganic Chemistry, Elementary Analytical Chemistry, Excessive amount of lab work
- **Mathematics and Data:** Mathematical Methods in Physics, Calculus I/II/III
- **Engineering:** Systems Engineering for Space, Electro-Optical Space Systems (Johns Hopkins)

## TECHNICAL TOOLS

- **Version Control & Remote Work:** Proficient in Git for version control and project tracking, with experience in collaborative environments using tools like Microsoft Teams and Zoom. Proficient with ticketing systems (mostly use Jira) and VoIP software such as CallCorp.
- **Command-Line Expertise:** Proficient in Windows, MacOS, and Linux command-line tools for file management, scripting, and system troubleshooting.
- **Software Proficiency:** Skilled in Python, Excel, AWS, Unix systems, and web development. Strong documentation skills using other Office365 tools,  $\LaTeX$ .
- **Hardware Troubleshooting:** 10+ years of experience repairing electronics (game consoles, computers, smartphones), using tools like multimeters and soldering irons.

## EXTRACURRICULARS

- 2020–Present** Filipino Martial Arts & Wing Chun student.
- 2018–2020** Member of Astronomy Club at USF.
- 2018–2020** Member of Society of Physics Students at USF.
- 2014–2017** Member of American Chemical Society at State College of Florida.
- 2016** Volunteer at Satchel's Last Resort Animal Shelter.
- 2007–2011** Science Olympiad and Skills USA State Competitor.

## SOFT SKILLS

- Teamwork** Collaborated with diverse teams in customer service roles and technical projects, ensuring effective communication and achieving common goals.
- Work Ethic** Shown strong performance in a variety of difficult academic fields while working full time at two jobs. Demonstrably stress-tolerant and can manage my time.
- Customer Service** Exceptional interpersonal skills developed through 15 years of experience, evidenced by consistent promotion to team leadership roles.
- Problem-Solving** Applied creative and analytical problem-solving skills in freelance tech support and troubleshooting tasks.
- Adaptability** Thrived in fast-paced environments, learning new technologies and processes quickly to meet job and project requirements.

## 10 YEAR HISTORY

