David C. Mayo

A computer programmer with a proven track record of success in building applications, designing algorithms, automating tasks, and getting the job done.

110 W Second St Apt 7
Morehead, KY 40351

(859) 229-2729

dcmayo@gmail.com

WORK EXPERIENCE

Morehead State University, Morehead, KY — *Space Science Center Undergraduate Worker*

MAY 2022 - DECEMBER 2022

Completely redesigned and rebuilt large (10,000+ lines of code) networked GUI for system monitor and control of DSS-17 communications dish, dramatically improving reliability, monitorability, maintainability. Rewrote and optimized lunar spacecraft trajectory interpolation algorithm, making it faster, better-performing, and more consistent. Automated critical tasks for lunar spacecraft operations. Mentored two undergraduate students in programming skills. Created Space Science Center Python package to streamline future operations.

AppHarvest, Morehead, KY — *Systems Administrator*

JUNE 2020 - FEBRUARY 2021

I.T. lead for a $100,000,000 industrial greenhouse with hundreds of employees and thousands of network hosts. Personally designed, documented, installed, oversaw, and maintained all I.T. systems during facility construction, company IPO, and initial crop planting and harvest phases. Served as only I.T. employee on site for much of the time. Particular focus was on networking infrastructure and overcoming physical environment challenges.

U.S. Air Force, Aviano, Italy and Las Vegas, NV — *Network Administrator/Theater Deployable Communications Specialist*

SEPTEMBER 2010 - SEPTEMBER 2014

Installed, configured, and maintained network infrastructure for a 4,000 user campus. Became lead troubleshooter for all network issues. Focus was on absolute stability and reliability of classified and unclassified IP networks.

Configured and maintained deployable I.T. systems and communications systems in harsh environments. Mixture of legacy serial devices and modern IP/ethernet devices. Focus on adaptability and performance in most challenging circumstances and general electronics know-how.

SKILLS

Significant experience building solutions in Python, C++, C#, and Windows Powershell.

Some experience with C, Matlab/Octave, and Java

Very limited experience with Bash, Javascript, and HTML/CSS.

Decades of experience troubleshooting devices, systems, processes, and computer programs.

Bottomless intellectual curiosity and desire to learn new skills.

Strong "soft skills": communication, teamwork, training, leadership.

Passionate. Willing to do whatever it takes to accomplish the mission.

EDUCATION

Morehead State University — *B.S. in Computer Science*

Graduated Summa Cum Laude, December, 2022

Community College of the Air Force — *A.A.S. in Electronic Systems Technology*

Degree Awarded 2013