

Cole Mathes

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CV Objective

Obtain a position at Lockheed Martin

Application Specific Relevant Skills

- **Ability to set a tone of community and belonging**
- **Interpersonal Skills**
- **Ability to discuss challenging and stressful topics in a productive and conscientious way**
- **Project management and constructive leadership skills**
- **Attention to detail**
- **Relentless attitude to question and improve current systems**

Work Experience

Residential Well-being, Blacksburg, VA

Student Leader for Inclusion and Belonging, August 2022–May 2023

- Help students develop communication skills to build relationships across differences
- Manage and resolve conflict among residents.
- Ensure a stable, safe, and welcoming student environment in the residence halls.
- Offer a helping hand to anyone in need, academically, socially, or otherwise.

Venture Out, Blacksburg, VA

Student Staff, May 2022–Present

- Challenge course lead facilitator.
- High Ropes and Technical Rescue skills.
- Canoeing Trip Leader, Current Wilderness First Responder Certification, Climbing Trip Leader in progress.
- 100+ Documented River Miles

- 100+ Documented Backpacking Miles
- Office Staff work, gear rental, and bouldering wall-setting experience.

Blacksburg Transit, Blacksburg, VA

Driver, May 2022–Present

- Hold a Class B commercial license with passenger endorsement
- Maintain a safe and friendly bus environment for passengers while keeping the bus on time
- Function well in high-stress situations

Virginia Tech Library, Blacksburg, VA

Project Internship, April 2022–September 2022

- Developing Hardware and Software to track and report long-term furniture usage in the library.
- Implementing DeepSleep functionality on Arduino microcontroller for battery optimization. Prototyping done in Python and then converted to C99.

Jefferson National Labs, Newport News, VA

Software Development Internship, August 2020–July 2021

- Travelerization Document Processor Development.
- Lead a team of interns to complete one of the most productive internship cycles in the HSSP program.
- Began ER5C Database Migration for the transition from C75 and C50 projects.
- Performed overhaul on the form production system.

Network Data Systems, Hampton, VA

Part-Time Technician, August 2020–June 2021

- Helped implement Microsoft Azure international remote work infrastructure in GCC High tenant. (Including remote software deployment and monitoring)
 - Developed software to install and configure Windows-integrated RSYNC functionality using WSL 2.0. in Bash
 - Began implementing an Enterprise level and updated version of the open-source Big Sister Network Monitoring software in Golang
 - Installed networking hardware and cable for small businesses.
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Education

Virginia Polytechnic Institute and State University (Fall 2021-Fall 2023)

Bachelor of Computer Science, Minor in Mathematics

GPA: 3.76/4.0

Relevant Coursework: Data Structures and Algorithms, Computer Systems (In Progress), Science Writing from a Social Justice Perspective (In Progress)

Warwick High School (Fall 2017 - Spring 2021)

High School Diploma

GPA: 4.53/5.0

Governors School for Science and Technology (Fall 2019 - Spring 2021)

Governors School School Diploma

GPA: 4.0/4.0

Relevant Course Work: Research Methodology and Ethics

Key Career Skills

- Expert project management skills
- In-depth understanding of most modern programming languages (Python, Golang, etc.)
- Experience working with deprecated programming languages (PERL, MSDOS, MATLAB, etc.)
- Conversational Spanish speaker
- Class B CDL
- Excellent interpersonal skills
- Conflict resolution
- Time management
- Intrinsically Motivated
- Experience with scientific writing and publishing

Examples of work: Due to the sensitive nature of some of my programming work, I am limited on how I can disseminate some of my research work (NDA). If you want to see any of my research regarding energy or defense, please email me at the email address listed above.