

Rylie Horning

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EDUCATION

• Virginia Tech

Bachelors in Engineering: Electrical Engineering, Minor: Computer Science
GPA 3.66/4.00

Blacksville, Virginia
August 2024 – May 2028

• New River Community College

Associates of Arts and Sciences: Computer Science
Completed concurrently with high school

Dublin, Virginia
August 2021 – May 2024

SKILLS

- **Electrical/Hardware:** AutoCAD Electrical, LTspice, Schematic Design, Electrical Wiring, Soldering, Test Equipment Development and Troubleshooting, Arduino, Raspberry Pi, Relays, Sensors, Motor Controllers
- **Programming Languages:** Verilog/VHDL, Python, C/C++, Java, JavaScript/TypeScript, HTML/CSS
- **Collaboration/Soft Skills:** Technical Documentation, Management Experience, Team Problem-solving

EXPERIENCE

• Moog Inc.

Supply Chain Intern

Christiansburg, Virginia
July 2025 - Present

- Create work instructions using Microsoft Word and ensure documents meet the ISO 9001 standard.
- Applied ERP tools (SAP) to support internal workflows and reporting.
- Attend daily stand-up meetings to give and receive progress updates.

• Virginia Tech Electric Service

Engineering Intern

Blacksville, Virginia
October 2024 - July 2025

- Revised campus power distribution schematics and facility electrical maps using AutoCAD Electrical.
- Gathered equipment data using a Trimble GPS device for mapping purposes.
- Supported installation and maintenance of campus electrical infrastructure.

• Motion Control Systems

Electrical Engineering Intern

Radford, Virginia
January 2024 - September 2024

- Assembled and soldered control circuit boards for motor control testing.
- Created and simulated control circuits in LTspice for custom PCB design.
- Supported engineers by applying Python programming skills in hardware testing and simulation.

• First Robotics Competition Team 401

Electrical Lead

Blacksville, Virginia
August 2022 - May 2024

- Led electrical system design for the team's robot, including wiring, power distribution, and sensor integration.
- Managed the creation of wiring schematics and diagrams using Fritzing software.
- Helped the team qualify for international competition, reaching the quarterfinals.

PROJECTS

• Automotive Interior LED System — 12V DC systems, relays, vehicle wiring

Designed and installed an automatic interior lighting system triggered by vehicle headlight signals using automotive relays and fused power distribution.

• Wi-Fi “On Air” LED Controller ESP32, embedded systems

Built a web-controlled ESP32 relay-based LED sign using embedded networking and relay control.

• WalTer Inventory Robot — Arduino, Raspberry Pi, Python

Developed an autonomous inventory robot at Penn State hackathon.