

Rylie Horning

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EDUCATION

- **Virginia Tech** Blacksburg, Virginia
Bachelors in Engineering: Electrical Engineering, Minor: Computer Science
GPA 3.66/4.00
August 2024 – May 2028
- **New River Community College** Dublin, Virginia
Associates of Arts and Sciences: Computer Science
Completed concurrently with high school
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.** Christiansburg, Virginia
Supply Chain Intern
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** Blacksburg, Virginia
Engineering Intern
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** Radford, Virginia
Electrical Engineering Intern
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** Blacksburg, Virginia
Electrical Lead
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.