# Rylie Horning

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## Education

- **Virginia Tech** — Blacksburg, Virginia
  *Bachelors in Engineering: Electrical Engineering, Minor: Computer Science* — *August 2024 – May. 2028*
  *GPA 3.66/4.00*
- **New River Community College** — Dublin, Virginia
  *Associates of Arts and Sciences: Computer Science* — *August 2021 – May. 2024*
  *Completed concurrently with high school*

## Skills

- **Electrical/Hardware:** AutoCAD Electrical, LTspice, Schematic Design, Electrical Wiring, Soldering, Testing Equipment, Arduino, Raspberry Pi, Relays, Sensors, Motor Controllers, Power Electronics Basics
- **Programming Languages:** Verilog/VHDL, Python, C/C++, Java, JavaScript/TypeScript, HTML/CSS
- **Collaboration/Soft Skills:** Management Experience, Team Problem-solving, Mentorship

## Experience

- **Moog Inc.** — Christiansburg, Virginia
  *Supply Chain Intern* — *July 2025 - Present*
  - Assist supply chain team in using SAP, an ERP planning software, to complete various tasks.
  - Create work instructions using Microsoft Word and ensure documents meet the ISO 9001 standard.
  - Attend daily stand-up meetings to give and receive progress updates.

- **Virginia Tech Electric Service** — Blacksburg, Virginia
  *Engineering Intern* — *Oct 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* — *Jan 2024 - Sep 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* — *Aug 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 with stable local network operation.
- **WalTer Inventory Robot** — Arduino, Raspberry Pi, Python
  Developed an autonomous inventory robot at Penn State hackathon.