

# Ayeden Rios

105 Main St, Durham, NH | 603-767-9178  
ajr1127@usnh.edu | linkedin.com/in/ayeden-rios-a7895122b

## EDUCATION

---

**University of New Hampshire - Durham, New Hampshire**

**August 2020 - May 2025**

*B.S. in Electrical Engineering*

*3.61 GPA*

- Designed a Class B amplifier with negative feedback for Junior Laboratory
- Written a technical research paper on OPA381 IC for Electronic Design
- Created a brushed DC motor for Electromagnetics Fields and Waves

## TECHNICAL SKILLS

---

- MATLAB, Altium, Logisim, and SPICE simulation
- Technical Writing
- Oscilloscopes, AWG's, Function Generators and VNA's
- SMD/Through Hole Soldering
- IEEE 802.3 Clause 14, 25, and 40 Conformance Standards
- C, Python, Git, and Visual Studio Code

## EXPERIENCE

---

**University of New Hampshire InterOperability Lab - Durham, New Hampshire**

**January 2022 - Present**

*Hardware Technician*

- Perform conformance testing for IEEE 802.3 Clause 14, Clause 25, and Clause 40 standards
- Compose reports for IEEE 802.3 standard testing for vendors devices
- Communicate with vendors about IEEE 802.3 conformance issues or questions during device testing
- Maintain testing documentation via Confluence and Jira for co-workers
- Collaborated in multiple vendor test events and hackathons
- Train and onboard new hires on IEEE 802.3 conformance standards

**Safran Defense and Space Inc. Optronics - Bedford, New Hampshire**

**June 2024 - August 2024**

*Electrical Engineering Intern*

- Design and export of PCBs for military contract programs through Altium Designer
- Restore component libraries and building custom footprints/symbols
- Update a PLM to keep track of electrical components, PCBs, and ECNs/ECOs
- Conduct EMC emission and susceptibility testing in house devices for the RS102/RS103 MIL-STD
- Modified existing Altium script by adding new parameters for automation
- Spoke directly with manufacturers to specify design criteria within datasheets
- Showcase designs in design review meetings to update issues or any necessary changes
- Design with buck and boost regulators to meet specific system power requirements

## ACHIEVEMENTS

---

- Deans List Highest Honors - Fall 2023
- Deans List High Honors - Fall 2020/2021 and Spring 2022
- George F. & Lina C. Fisher Scholarship Award for Fall 2023 and Spring 2024
- ECE 401 group project award at UNH as team Leader for group of four engineers
- Water Country Leadership Member Award

## EXTRACURRICULARS

---

**"ARKaic Aether" Server and Discord - Lee, NH**

**January 2021 - October 2021**

*Owner and Developer*

- Built and managed a Discord with multiple game servers for 10 months as server owner for over 700 people
- Assembled a unique server store to generate monthly revenue for building future growth
- Created compromise packages for loyal community members within ARKaic Aether's store, generating a 50-100% increase in overall profit per month
- Maintained community satisfaction and increased new user enrollment by 10-20% per month