

Dylan MacLeod

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EDUCATION

University of New Hampshire (UNH) – Durham, NH

Expected: May 2026

Bachelor of Science Electrical Engineering

Related Coursework: Digital Systems, Electronic Design I/II/III, Electromagnetism, Signals and Systems I/II, Computer Science for Engineers & Scientists

TECHNICAL SKILLS

Laboratory Skills: Oscilloscopes, Soldering, Signal Integrity Testing, Vector Network Analyzer (VNA), Bit Error Ratio (BER), 802.3bz

Computer Languages: C/C++, MATLAB, Arduino Integrated Desktop Environment (IDE)

Certifications: Altium 365 Designer Certification

RELATED EXPERIENCE

UNH-Interoperability Labs – Durham, NH

Senior Test Technician

October 2024 – Present

- Contributed to re-evaluation and refinement of Advanced Physical Layer (APL) conformance test plans and procedures, supporting updates to industry-standard validation methodologies
- Trained and guided new hire technicians in hands-on measurement techniques, equipment calibration, and lab safety protocols, raising overall team capability
- Documented detailed test results, schematic modifications, and lab procedures using the Atlassian suite—including Jira and Confluence—to enable reproducibility, task tracking, and efficient knowledge transfer across teams.
- Gained hands-on experience soldering surface-mount, through-hole, and Subminiature version A (SMA) components for prototype boards and test fixtures
- Experienced using GitHub for version control, pull requests, and code collaboration within team projects

Junior Test Technician

October 2023 – October 2024

- Tested various devices for four-pair Ethernet at different IEEE standard tests, such as Clause 25, Clause 40 & 40(IEEE), Clause 55, and Clause 126
- Performed signal quality measurements (return loss, jitter tolerance, insertion loss) using high-speed oscilloscopes, BERs, and VNAs to ensure IEEE 802.3 conformance
- Isolated and resolved complex hardware failures by performing root cause analysis at component, board, and system level

WORK EXPERIENCE

Rhodes North Taven – Sloatsburg, NY

August 2019 – August 2022

Barback/Dining Room Attendant

- Supported bartenders by restocking liquor, beer, wine, garnishes, glassware, and bar tools to maintain uninterrupted service during peak hours
- Contributed to a positive guest experience by maintaining a clean space, resetting tables efficiently, and keeping operations well stocked
- Monitored customer needs by quickly clearing used glassware and providing prompt support to bartenders

ADDITIONAL INTERESTS

- Demonstrated passion for practical engineering applications through automotive projects involving repair, maintenance, and troubleshooting of mechanical and electrical issues
- Experienced in smartphone repair and PC assembly, including component replacement, BIOS updates, and system debugging