

Zachary MacKenzie

Durham, NH | 603-818-0245
zachmackenzie7@gmail.com

EDUCATION

University of New Hampshire - Durham, NH

May 2024

Bachelor of Science: Information Technology w/ minor in Biotechnology

TECHNICAL SKILLS

- Scripting in JavaScript, Python, Java, and XML
- VSCode, IntelliJ IDE, and Visual Studio Code 2017
- MySQL, SQLite, & MongoDB database systems
- Kanban & Agile Project Management
- Atlassian Tools, Jira, Confluence, Bitbucket
- Spirent N4U Test Center for traffic generation
- Drupal, Bootstrap, & SCSS front end development
- Application of IEEE802.3 Clauses 4, 31, 46 and 49 in debugging and testing
- AutoCAD, Autodesk Inventor

RELATED EXPERIENCE

UNH Interoperability Laboratory – Durham, NH

Oct 2021 – Current

Ethernet Test Technician – Level 2 (Oct 2022 – Current)

- Created training materials and trained peers on internal test tools
- Modified existing test plans to account for changes to the IEEE802.3-2022 Standard
- Automated internal testing processes using python scripting, Jinja2 templates, and NoSQL databases
- Acted as a liaison between Level 1 staff and management, resolved roadblocks to ensure smooth operations
- Reviewed and corrected Level 1 technician reports before handing them to technical managers

Ethernet Test Technician – Level 1 (Oct 2021 – Oct 2022)

- Performed premarket product tests for multiple customers and provided weekly updates on progress
- Communicated with global vendors over email and zoom for testing updates and debugging
- Followed internal test plans, collected results, and created reports for customers

ADDITIONAL EXPERIENCE

UNH Interoperability Laboratory – Durham NH

July 2023 – Aug 2023

High Tech Bound Resident Assistant (Seasonal)

- Provided live-in supervision for 10 IOL interns in a UNH residence hall over a 5-week period
- Acted as a liaison between Interns, UNH staff, and UNH IOL managers
- Facilitated STEM activities after work hours in addition to weekend trips with the interns

UNH Manchester Lab Assistant – Manchester, NH

Nov 2020 – May 2021

Microbiology Lab Assistant

- Prepared lab materials for classes at the request of multiple professors
- Produced batches of agar media, chemical solutions, and liquid bacteria for lab students' projects
- Sanitized lab area and lab materials from biohazards

AWARDS & CERTIFICATIONS

Honorable Mention at the UNH Undergraduate Research Conference

Spring 2024

- Redeveloped the USNH college dashboard for all UNH, Keene State, and Plymouth State Students.
- Worked with developers at Pathify and UNH to create dynamic widgets from multiple data sources