

# Griffin Leclerc

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<https://griffinleclerc.github.io>

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## Technical Skills

Clearance: Secret, US Government Clearance

Languages: Rust, Java, C, C++, Python, Bash, XML, Scala, LaTeX, JSON, HTML, Go, R, JavaScript, Matlab, C#

Software: Git, Jira, Bitbucket, GitLab, Linux, AWS, Jenkins, Cargo, Gradle, Static Analysis, Dynamic Analysis, Virtual Machines, Restful APIs, Docker, CI/CD, Unit Testing, Maven, Ant

Hardware: Embedded Systems, Network Switching, High Performance Computing, Raspberry Pi, Arduino

Network Protocols: NTS, NTP, PTP (IEEE 1588), 802.1Q, 802.1BA, 802.1AS, STP, C37.238, 1722, TLS, TCP/IP, VLAN

## Professional Experience, 8 years

### General Dynamics Mission Systems (GDMS)

Dedham, MA

Senior Advanced Software Engineer

March 2023 - Present

- Researched the safety, security, and performance of deploying Rust in cryptographic environments
  - Publication anticipated November, 2023
- Maintained multiple proprietary software image deployment architectures
- Developed supplemental contributions to a shared classified codebase as part of the Core Security Library

### University of New Hampshire Interoperability Lab (IOL)

Durham, NH

Lead Software Architect

May 2019 - March 2023

- *Speaker / Author, "Experimental Analysis of the Performance and Scalability of Network Time Security for the Network Time Protocol," IEEE ISPCS (2022)*
- Developed software certification tooling used worldwide by Automotive and Professional Audio industries
- Architected a RESTful Device Under Test remote control interface for streamlined automation
- Made new, significant additions to IEEE 802.1Q, 802.1AS, and C37.238 networking standards
- Collaborated with industry design engineers and standards committees to develop embedded devices

Software Developer

December 2016 - May 2019

- Developed and maintained features of Violet, a Time Sensitive Networking device certification tool
- Performed maintenance on regression tests and automated build scripts
- Assisted with creation of REST implementation for remote control of Violet

Embedded Systems Technician

June 2016 - December 2016

- Performed conformance testing on industry devices and defended subsequent certification reports
- Primary interface for engineers and developers of the Time Sensitive Networking vendor community

Intern

July 2015 - April 2016

- Designed leap second conformance tests and GUI tests for proprietary testing tools

## Leadership

### University of New Hampshire Interoperability Lab

Durham, NH

Consortium Lead / Agile Scrum Master

May 2019 - March 2023

- Lead a team of five junior developers to regularly release software updates in a timely manner
- Primary vendor contact for Avnu and Open Alliance consortium members
- Managed weekly testing reservations and standups, ensuring product accuracy and delivery commitments

HighTech Bound Summer Internship Program Supervisor

July 2022 - August 2022

- Created and managed a six week network technology immersion program for ambitious student employees

Student Leadership Award, 2018 and 2019

- Mentored, supervised and trained 20 IOL employees and 19 interns over 7 years of employment

UNH Tech Camp Instructor

July 2018 - August 2019

- Mentored 20 UNH Summer Campers in networking protocols, Python scripting, and circuit construction

Eagle Scout, Boy Scouts of America, Troop 292

Hooksett, NH

## Education

University of New Hampshire at Durham, NH

M.S. Computer Science, Summa Cum Laude

B.S. Computer Science, Magna Cum Laude