

NOAH NEWTON

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SUMMARY

Embedded C/C++ Software Engineer with hands-on experience at Xerox and a background in secure systems administration as an Information Systems Technician in the U.S. Navy Reserve. Proven track record of designing and optimizing embedded systems, and managing mission-critical IT infrastructures. Strong analytical mindset, teamwork capabilities, and a commitment to operational excellence.

WORK EXPERIENCE

Software Engineer | Xerox

Jul 2022 - Present

- Developed and maintained embedded firmware for printer and scanner applications using C/C++.
- Collaborated with cross-functional teams to implement real-time system features.
- Integrated PAM and libfido2 modules for secure smartcard and USB token support across ARM and x86 platforms.
- Participated in stakeholder meetings to discuss project progress, changes, and challenges.
- Implemented OpenSSL 1.1.1 into Yocto-based embedded Linux builds, addressing CVEs and resolving dependency conflicts.

Information Systems Technician First Class | U.S. Navy Reserve

Mar 2017 - Mar 2025

- Served as the Leading Petty Officer and Interim Senior Enlisted Leader for Task Force 56 Reserve Detachment.
- Managed secure communication systems, network infrastructure, and server maintenance.
- Provided cybersecurity oversight and support for Navy IT systems during multinational exercises in forward deployed areas.
- Conducted training on classified and unclassified systems for junior personnel

EDUCATION

Bachelor of Science | Computer Science

Aug 2020 - May 2022

State University of New York at Oswego

- Minor in Cognitive Science
- Summa Cum Laude

Associate of Science | Computer Science

Aug 2018 - May 2020

Jefferson Community College

- Cross Country Team Captain
- Golf Team Member

KEY SKILLS

- C and C++ programming
- Bash and Python scripting
- Go development
- HTML and CSS design
- RTOS and Yocto project expertise
- LibUSB and OpenSSL knowledge
- Version control with Git
- Project management with JIRA
- Continuous integration with Jenkins
- Network analysis using Wireshark
- Debugging with GDB
- Vim proficiency
- Windows Server administration
- Active Directory management
- Network security strategies
- Virtualization technologies
- Agile methodologies
- CI/CD practices