

NATE AQUINO

Computer Scientist looking for a 2024 Co-Op in Embedded Software Engineering. Fast learner and team player.

PROJECTS

Trinket + Grove LCD Drivers | A portable display for backpacks

<https://github.com/Naquino14/trinket>

📅 February - March 2023

- Researched datasheets on two integrated circuits.
- Built software for the rp2040 microcontroller boards.

Skills: Embedded development, C, Make, Linux, 3D Printing, CAD software

ImHere qgen | Faster attendance for Computer Science House

<https://github.com/ComputerScienceHouse/ImHere>

📅 August 2022 - Ongoing

- This project will benefit the Computer Science House by automating attendance.
- Researched the ISO/IEC 18004:2015(E) standard to implement it.

Skills: React, TypeScript, Visual Studio Code, OKD, NPM, Algorithm Development, Frontend Development

Aquino Data Integrity and Security ADIS | Experimental crypto

<https://github.com/Naquino14>

🔗 ACH-1 | ACH-2 | ARC-128 | AOTP-1 | AOTP-2 | AKG-1

📅 July 2021 - Ongoing

- Researched Cryptography to learn about modern security.
- Implemented cryptographic hashes, time based one time passwords, encryption, and key exchange.
- Used this suite in tandem with official ones for custom IoT devices that automate an apartment.

Skills: .NET Core 3.1, .NET 6.0, C#, 10, C, C++, DNSpy, Visual Studio, Algorithm development

Project Launchtab | A scratch built tablet for taking notes

<https://github.com/Naquino14/LaunchtabSubsystem>

📅 April - July 2022

- Researched and developed a tablet to take notes for classes.
- Built from scratch over the course of 12 weeks.

Skills: .NET 6.0, C#, 10, Ubuntu, SSH, Visual Studio, Bash, Embedded systems

EXPERIENCE

Student Systems Administration and Computer Support

🔗 **Chester F. Carlson Center for Imaging Science**

📅 April 2023 - Ongoing

📍 Rochester, NY

- Worked with supervisors to manage computers and their peripherals.
- Provided technical support to students and professors when needed.
- Worked on projects such as a Proxmox server and a webpage with hours and contacts to improve the Systems Administration process.

Skills: Windows, Linux, HTML/CSS, Bash, Project Management, Computer Hardware

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🔗 <http://nateaq.0x.no>

EDUCATION

Rochester Institute of Technology

Computer Science B.S.

📅 Expected Graduation Fall 2026

SKILLS

Embedded software Embedded debugging
Agile Software Engineering Windows Linux

Languages

C# C C++ TypeScript Java Python
HTML/CSS Bash

Tools and Skills

Git GitHub Docker OKD + Kubernetes
Visual Studio (Code) Command Prompt React
Make CMake Logic Analyzer U-Center
Trello & Github Projects

CLUBS & ACTIVITIES

RIT Launch Initiative

Member - Avionics Software

📅 January 2022 - Present

Worked together in groups of 2-3 to implement mission-critical avionics systems such as drivers for sensors and radio frequency modules like APRS and GPIO external interrupts. Deployed software contributed to winning first place in the payload category at the Spaceport America cup.

Skills: C/C++ Programming, Embedded Development, Teamwork, Software Engineering

Computer Science House

Active On-Floor Member

📅 August 2022 - Present

Actively improved the floor with software like ImHere and CSH React Boilerplate.

FRC Team 4761 "The Robockets"

Electrical Lead

📅 2019 - March 2022

Led and trained freshman to wire a robot efficiently and safely. Communicated the needs of the sub team to the project manager. Worked as a team to implement needs from the project manager.