

# Nathanael Q. Metke

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## EDUCATION

### University of Connecticut, Storrs CT

*B.S.E, Computer Engineering, Electrical Engineering, May 2022*

*Relevant Courses: Digital Logic Design, Computer Organization & Architecture, Operating Systems, Digital Integrated Circuits*

## EXPERIENCE

### General Dynamics Electric Boat • Groton, CT

*Embedded Software Engineer, June 2022 - Present*

- Integration for subset of ship control for the next class of nuclear submarine. This work involved updating code, resolving issues and big fixes.
- Worked with a small team to help communicating with other departments to aid in ensuring that the tools worked together effectively.

### University of Connecticut Information Technology Services • Storrs, CT

*Software Developer, September 2019 - May 2022*

- Designed solutions to aid in administrative solutions to be used by staff across the university and increasing the number of automated tasks.
- Led a small team of students to brainstorm and develop various APIs and tools to connect with existing university infrastructure such as Active Directory and asset trackers and make them easier to use.

### Zenabi Data • Westport, CT

*Software Developer, April 2018 - August 2019*

- Supported data analysis team by gathering various datasets and ensuring that the data is readable.
- Developed some basic tools that used data gathered, for user-facing tools or for data analytic algorithms

## PROJECTS

### Autonomous Search and Rescue Helicopter System Design

*Sikorsky*

- Prototyped a drone flight director and computer vision system to autonomously search an area for a specific target to airlift back to its original position. Learned to use tools such as Simulink & OpenCV.
- Cooperated with employees at Sikorsky to achieve specifications and receive feedback on the design.

### IT Self Service Tools and APIs

*University of Connecticut ITS*

- Spearheaded the organization and management of many administrative tools that connect many of UConn's computer infrastructure to allow for easier analysis and management
- Collaborated with staff, faculty, and other software developers to build useful tools and APIs to lower overall workload in the IT department.

### Microcontroller Morse Decoder

*Microprocessor Design*

- Utilized a generic microprocessor connected with button inputs to accept morse code and display/save the message in ASCII, using the system timers for reference in timing.

## Leadership

### Scared Scriptless Improv Club

*President*

- Managed and led the non-audition improv comedy club at UConn. Focused on increasing membership through recruiting and doubled the average attendance.

### Electrical and Computer Engineering Senior Design

*Team Manager*

- Communicated with university department and the team sponsor, as well as led team meetings and delegated tasks. Responsible for ensuring project parts were ordered and within the budget.