

# TERRY ZHHAO ZHAO

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## OBJECTIVE

Obtain an internship position in the software engineering field to gain valuable work experience while applying my knowledge and skills in a demanding environment. Noted strengths: fast learner, works well under pressure, autodidact in subjects of interest.

## EDUCATION

**University of Connecticut** (Honors Program)

*Expected Graduation: May 2022*

Bachelor of Science, Electrical and Computer Engineering

- Honors: Academic Excellence Merit Scholar, Dean's List

## WORK EXPERIENCE

**General Dynamics Electric Boat**, Groton, CT

*Summer 2020*

*Embedded Software Engineer Intern*

- Contributed to a portion of the Software Verification Platform (SVP) project by utilizing Spring IoC and dependency injections, and Apache logging to facilitate bidirectional communication between sensor and data acquisition modules.
- Created a multi-threaded C++ test simulator to communicate with a ship-board battery monitoring system emulator.

**Key achievement:** Developed a functional part of the SVP and a working simulator that met stringent requirements during peer review, with SVP work to be further implemented and the simulator to be used for future project-specific testing.

**Systems Optimization Lab**, Storrs, CT

*Spring 2020 – Present*

*Undergraduate Researcher*

- Working on the Oxygen Regeneration (OGA) section of a Resilient Extraterrestrial Habitats Institute (RETHi) project in collaboration with graduate students of various universities.
- Used MATLAB and Simulink to create an OGA functional model off state-based power consumption.

**Key achievement:** Modeled various parts of the OGA including solenoid valves and venturi sensors using state-space analysis, creating a subsystem that will be later run through regression analysis.

**General Dynamics Electric Boat**, Groton, CT

*Summer 2019*

*Embedded Software Engineer Intern*

- Worked to create a Python-based test tool that can be used to automate the process of creating test cases that drive impressed current cathodic protection (ICCP) interfaces and of determining satisfactory/unsatisfactory results based upon system component responses.
- Frequently collaborated with software, hardware, and system engineers to provide updates on project logistics

**Key achievement:** Developed a test automation tool that will ease the burden of function qualification test and software qualification test phases during the ICCP redesign effort.

## PROJECTS

**Personal Portfolio Website**

*Summer 2020*

- Created a responsive mobile-friendly website to showcase my interests, work experiences, projects, and more. (visit [terry.zhao.herokuapp.com](http://terry.zhao.herokuapp.com) for additional projects and information)

**Utilized:** Django, Heroku, JavaScript, HTML, CSS, SQLite.

*Winter 2020 – Present*

## ACTIVITIES

**University of Connecticut Association of Computer Machinery**

*Fall 2018 – Present*

- Working in subgroups to explore computer areas of interest (website development, hackathons).

## PROFESSIONAL TALENTS

### Technical Skills

- **Programming:** Advanced knowledge of Python; Intermediate knowledge of Java, JavaScript, HTML, CSS, C++, C.
- **Frameworks:** Spring, Apache, Maven, React, Django.
- **Software:** Intermediate knowledge of Red Hat Linux, MATLAB and Simulink, SQL, GitHub, GitLab.