# Danielle Laganiere

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## Education

University of California, Santa Cruz
*Bachelor of Science - Robotic Engineering* *Expected June 2022*

## Professional Work History

Nuleep - Software Engineering Intern *July 2021 - September 2021*

- Tested completed user stories and created bug reports with reproduction steps to capture every action and its result to assist the development lead to investigate known issues.
- Managed the planning, implementation, and delivery of an AI Personalizer using Azure's Cognitive Services to personalize user experiences by suggesting events and learning material based on their level of engagement with existing content to increase sales of services.
- Worked in an Agile development team to deliver features through bi-weekly iteration cycles.

UCSC Group Tutor - Programming Abstractions: Python *March 2021 - September 2021*

- Ensured students completed labs successfully with the knowledge to recreate continued results.
- Instructed students in fundamental object-oriented programming concepts, as well as developing and debugging coding projects, to create a strong software development foundation.

UCSC Undergraduate TA - Data Structures and Algorithms *September 2020 - March 2021*

- Instructed students in course concepts related to data structures and algorithms, and helped brainstorm and develop complex programs in C/C++ to utilize these ideas.
- Provided additional resources and support in topics such as linked lists, stacks, queues, hash tables, trees, heaps, and graphs.

## School Projects

Senior Design Project *September 2021 - June 2022*

- Developed complex software in Python to control an autonomous airship, which included communicating between two OBCs and integrating two computer vision implementations.
- Lead Agile project management exercises, such as gantt chart development, sprint planning, and team standups to ensure a high-functioning environment.

Mechatronics Course *September 2021 - December 2021*

- Worked with microcontrollers and various circuit hardwares in combination with embedded system programming to develop a complex autonomous robot to complete standardized tasks.
- Incorporated the project's big picture into team member goal development and implementation, as well as project managing to ensure continued progress, communication, and success.

## Skills

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| C / C++ | Embedded Systems | Python | Javascript |
| Microcontrollers | Data Structures | Algorithms | Logic Design |
| ReactJS | TailwindCSS | HTML / CSS | Agile Project Management |

## Leadership Positions & Certifications

- Communication Lead of the On Board Computer subteam of UCSC SlugSat team, which has been building a small satellite from the ground up over the course of 4+ years.