

XAVIER KUEHN

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TECHNICAL SKILLS

Front End * | React, JavaScript, TypeScript, CSS

Back End | Python, C, C++, PostgreSQL*, Node.js, MongoDB

Developer Tools | Docker*, Git, npm

** currently acquiring*

EXPERIENCE & PROJECTS

Microgrid Intelligent Agents

May 2023 (Ongoing)

- Collaborate with peers and faculty advisor to design intelligent agent software for power resource regulation in a microgrid environment
- Incorporate relevant academic research through in-depth literature review of microrgrids, power systems, artificial intelligence, and multi-agent systems

Research Intern | Robotics Systems Laboratory

Feb 2022 - Feb 2023

- Facilitated the set up of new computers, adhering to lab standards and practices, and distributed them to project teams.
- Assisted with graduate and doctorate projects, including prosthetics and remotely operated underwater vehicles.
- Reinforced hard skills in MATLAB, C++, and Arduino through on-the-job applications.
 - Prosthetic Hand (Arduino): Developed a low-cost hand prosthetic that implemented an accelerometer to track movements and gestures.
 - Vertical Profiler (Arduino, GPS): Developed a device that collects sensor readings from various depths and implemented GPS for device tracking.
 - Satellite Tracking (NOVA): Developed a computer system for tracking satellites and connected an antenna rotator to NOVA software.

Coding Camp Volunteer | Under the GUI Academy

Summer 2019

- Assisted with the organization and logistics of classroom activities, including setting up and organizing materials, helping campers with their projects, and answering questions from campers and instructors.
- Provided support to lead instructors, ensuring that all campers understood the material and were able to participate.
- Fostered a fun and engaging learning environment for campers, where they were able to develop skills in computer science, robotics, and game development.

Class Registration Python Bot

- Python bot using Selenium to automate web navigation and form filling; able to complete university course registration

EDUCATION

Santa Clara University | Bachelors of Science

Expected graduation, Jun 2024

Computer Science and Engineering

- Relevant Courses: Object Oriented Programming, Data Structures, Machine Learning, Artificial Intelligence, Computer Networks, Computer Architecture, Linear Algebra, Algorithms, Satellite Operations
- Aided doctoral student in setup of test bed for Decabots (10 swarm robots) and OptiTrack 3D sensor system (Feb 2022 – May 2022)
- Tutor peers in classes of my expertise through the Tau Beta Pi Honor Society

AWARDS & RECOGNITION

Tau Beta Pi Engineering Honor Society Member : Invited for being in the top 1/8 of the entire SCU Junior class (2022)

SCU Dean's List : Achieved a grade point average in the top ten percent of the SCU sophomore class (2021)

Patti Grace Smith Fellowship Finalist : One of 30 finalists for internships with leading aerospace companies (2021)