

XAVIER KUEHN

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I am an avid learner who loves to push the boundaries of my knowledge. Whether I'm in school, at work, or at home, I leverage my competency in collaboration and communication to effectively create with purpose. Check out my website for more info!

SKILLS

Languages and Frameworks | Python, C, C++, TensorFlow, NumPy, Pandas, Arduino, MongoDB

Technical Exposures | Node.js, React, HTML, TailwindCSS, ROS, Transfer Learning, Circuits, Git (Github)

EXPERIENCE & PROJECTS

Microgrid Intelligent Agents | Senior Design

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.
 - Prosthetic Hand (Arduino): Worked on a low-cost hand prosthetic with accelerometer gesture tracking.
 - Vertical Profiler (Arduino, GPS): Integrated a GPS for device tracking on a submersible device that collects sensor readings from various water depths.
 - Satellite Tracking (NOVA): Developed a satellite tracking computer system for lab and class uses.

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.

EDUCATION

Santa Clara University | Masters of Science

Expected graduation, Jun 2025

Robotics and Automation

- Focus on Artificial Intelligence, Deep Learning, NLP, Mechatronics, Control, and Robotics
- Completed specialization in Deep Learning from Coursera to supplement university coursework; certificates awarded in Neural Networks and Deep Learning, Optimization, Sequence Models, and Convolutional Neural Networks (2023)

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 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)