Xavier Kuehn

SOFTWARE ENGINEER

EXPERIENCE

RESEARCH ASSOCIATE – ROBOTICS SYSTEMS LAB @ SCU
SANTA CLARA, CA | FEB 2022 – FEB 2023

Facilitated the setup of new lab computers resulting in seamless integration with project teams.

Assisted with **graduate and doctoral projects**, supporting upperclassmen while bringing about effectual change.

Projects worked on: Low-Cost Prosthetic Hand, Vertical Profiler, and Satellite Tracking System.

CODING CAMP VOLUNTEER – UNDER THE GUI ACADEMY
VANCOUVER, BC | SUMMER 2019

Mentored kids who were enthusiastic about coding on making games with Unity and building circuits for robots.

Clearly **communicated** with camp staff and campers to foster an engaging learning environment.

Leveraged my CS experience to be **impactful** in the classroom.

PROJECTS

PDF CHATTER – PYTHON, LANGCHAIN, OPENAI, STREAMLIT

Reads PDFs inputted by the user then uses **semantic search** to find relevant info related to the user's prompt.

Uses **LangChain** for models, embeddings, and processing.

GUI uses Streamlit for easy-to-use and accessible chatting.

SPEAKNOTES – PYTHON, GOOGLE TTS, NOTION API

Uses Google TTS to recognize an activation command and input spoken content into Notion page.

Customize Notion workflow through its **API** and create to-do lists, add to existing pages, or make new ones.

MICROGRID AI – PYTHON, SPADE, PYMGRID

Collaborate with team and faculty advisors to **design intelligent agent software** for power resource regulation in a microgrid environment.

Incorporate relevant academic research through **in-depth literature review** of microgrids, power systems, artificial intelligence, and multi-agent systems.

Find more projects on my website or Github!

PORTFOLIO

xavierkuehn.com

CONTACT

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EDUCATION

SANTA CLARA UNIVERSITY

MS, Robotics and Automation
EXPECTED GRAD 2025

BS, Computer Science and Engineering
EXPECTED GRAD 2024

SKILLS

Python, C, C++, Java
MongoDB, React, TailwindCSS
Git, Node.js, NumPy, Pandas
Arduino, ROS, Circuits
TensorFlow, PyTorch, OpenCV
Computer Vision, Sequence
Models, Transfer Learning, NLP

RELEVANT COURSES

OOP, Data Structures, Algorithms, Networks, Computer Architecture, Probability & Statistics, Linear Algebra, Machine Learning, Artificial Intelligence

ACCOMPLISHMENTS

Deep Learning Specialization from DeepLearning.ai (2023)
Tau Beta Pi Honor Society Member (2022)
SCU Dean's List (2021)