Jeffrey Ng

jeffrn4@uci.edu

LinkedIn.com/in/JeffreyNg99

510-512-5621

EDUCATION

University of California, Irvine Graduated: June 2021
Computer Science, B.S; GPA: 3.35 *Irvine, CA*

- **Relevant Coursework**: Object Oriented Programming, Robotics, Machine Learning, Deep Learning, Algorithmic Design, Applications of Probabilities, & Quantum Computation
- **Organizations**: President of Applied Machine Learning Group

SKILLS

Languages: Python & C/C++
Technologies: Git, Docker, ROS, & PyTorch

EXPERIENCE

Machine Learning Intern June 2020 - September 2020
Lawrence Livermore National Lab *Livermore, CA*

- Decentralized Autonomous Networks for Cooperative Estimation Team
- Work included simulations, autonomous pathing, & computer vision

Lab Research Intern October 2018 - May 2019
Mechatronics Embedded Systems & Automation Lab *Merced, CA*

- Collaborated with two Ph.D. students on embedding awareness into drones with deep learning algorithms
- Developed pipeline tools to process over 10,000 flight logs as well as simulating drone flights with ROS, Gazebo, & PX4
- Tuned neural network performance under different hyperparameters; presented paper & work at ICUAS 2019

Assistant Project Manager January 2018 - December 2018
Unmanned Aerial Systems *Merced, CA*

- Led a team of three computer scientist and seven mechanical engineers to develop an NDVI image analysis system that detects water stress areas in Merced Vineyards
- Debugged OpenCV framework issues and redesigned image analysis program, as well as overseeing prototyping, testing, and delivery phases
- Proposed, secured, and managed $4000 to include software & hardware purchases

Camp Counselor Summer 2014 - Summer 2017
Head-Royce School *Oakland, CA*

- Assisted teachers to cultivate a rich learning experience for campers
- Worked with camp counselors, teachers, and administrators to offer a fun environment for the campers
- Ensured all campers reunite with their guardian safely at the end of the day

HACKATHONS

Autonomous Charging Bot: Best Infrastructure Hack at HackUCI 2020
- Designed a robot that navigates to a vehicle using ROS and Gazebo. With reinforcement learning, trained a modular robotic arm to reach a point in space being conceptualize as a charging tether.

Lost Dog Finder: First in the Entrepreneurial Track at HackMerced 2019
- Developed a mobile web app enabling communities to locate lost pets. Users upload photos of lost dogs which would get classified by a machine learning model built with AutoML-Vision and stored into our database for querying.