

# Jeffrey Ng

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## EDUCATION

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### University of California, Irvine

Graduated: June 2021

*Computer Science, B.S; GPA: 3.35*

*Irvine, CA*

- **Relevant Coursework:** Object Oriented Programming, Robotics, Machine Learning, Linear Algebra, Algorithmic Design, Data Structures, Discrete Math, & Computer Organization
- **Organizations:** President of Applied Machine Learning Group

## SKILLS

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**Languages:** Python & C/C++

**Technologies:** Git, Docker, ROS, & PyTorch

## EXPERIENCE

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### 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 with Matplotlib; 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 to 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

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### 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.