

# Tait Kaminski

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## EDUCATION

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### University of California, Los Angeles

June 2021

*B.S. Electrical Engineering, Technical Breadth in Computer Science*

- **Honors:** Dean's List (Spring 2021)

- **Relevant Coursework:**

Applied Numerical Computing  
Object-oriented Programming  
Algorithms

Probability and Statistics  
Design of Robotic Systems  
Communication Systems

## TECHNICAL SKILLS

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**Computer:** Proficient in Windows Configuration, Hardware Maintenance, IT Troubleshooting, Virtual Machines and remote support, Python

**Operating systems:** Windows 7-11, MacOS, Linux

**Application Software:** Microsoft Office 365, Adobe Creative Suite

## WORK EXPERIENCE

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### UCLA Undergraduate Admissions

November 2018- June 2021

#### *Technical Support*

- Provided in-office and remote PC hardware and software technical support for UCLA Undergraduate Admissions staff
- Completed tasks including HTML website maintenance, hardware repair, new computer setup and imaging, security updates, software installation and application/printer support
- Assisted new employee technology setups

### Coco Delivery

July 2019- October 2020

#### *Intern*

- Developed two separate robotic delivery systems deployed on and around UCLA's campus
- Researched reinforcement learning techniques for autonomous navigation on a mobile robot
- Troubleshoot various software and hardware functions for the robots
- Completed tasks including graphical image annotation and database building
- Created and built ROS2 packages in Python and C++

## ENGINEERING PROJECTS

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### Characterization and Simulation of Mobile Hospital Robot

- Design capstone project in collaboration with a mixed team of mechanical and electrical engineering students
- A detailed robotic mathematical input-output model of system dynamics and computational simulation in Python, MATLAB and Webots
- Sought to autonomize tasks involving the collection and distribution of various items for hospital patients
- Pitched and Presented to a large body including mechanical and electrical engineering professors, teaching assistants and students

### **Object Detection using OpenCV2, Keras, TensorFlow**

- Personal project completed as a task while interning at Coco Robotics
- A Robotic Operating System (ROS2) package containing a C++ image publisher using OpenCV that feeds real-time data into a Python neural network using Keras RetinaNet
- Accomplished live object detection and classification

### **Generalization of Location from Range**

- Final project from an Applied Numerical Computing class
- A MATLAB program to determine the location of points in a plane representing nodes in a wireless network given the location of other points with known positions representing nodes with GPS receivers, and inexact measurements via the strength of signals of the distances between certain pairs of nodes
- Successfully implemented using the Levenberg-Marquardt method

## **SUPPLEMENTAL**

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### **Camp Kesem at UCLA**

*January 2019- June 2022*

#### *Camp Counselor*

- Volunteered and fundraised contributions of thousands as a camp counselor for Camp Kesem at UCLA
- The Largest national organization dedicated to supporting children impacted by a parent's cancer, as a week-long summer camp at no cost to families

### **UCLA Surf Team**

*September 2017- June 2021*

#### *Team Captain*

- Captained the competitive team representing UCLA in the Southwest College Men's conference of the National Scholastic Surfing Association (NSSA)