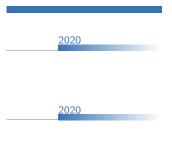
Peter Wang

Curriculum Vitae

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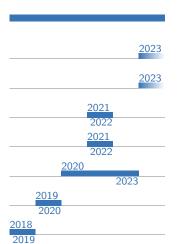
Educational Background

BS Computer Engineering and Computer Science, *University of Southern California*, Los Angeles, USA

GPA: 3.95/4

BS Applied and Computational Mathematics, *University of Southern California*, Los Angeles, USA

GPA: 3.95/4



Honors & Awards

Provost's Research Fellowship

Engineering Honors Program

CURVE Research Fellowship

Academic Achievement Award

USC Dean's List

FRC Innovation in Control Award

FRC Regional Winner



Professional Experience

Research Assistant, *Interactive and Collaborative Autonomous Robotics Lab*, Prof. Stefanos Nikolaidis, USC

Develop simulation software using PyBullet and real-life robotics demo using ROS

2021 2022

Research Assistant, *Dynamic Robotics and Control Lab*, Prof. Quan Nguyen, USC

- Worked on the design and control of a light-weight low-cost quadruped robot
- Co-lead the software control sub-team and develop impedance and force control on the robot legs

2022

Software Engineer Intern, Honeybee Robotics, Altadena, CA

- Developed an operator console on YAMCS Studio to communicate with the ground station YAMCS for displaying incoming telemetry data and sending control commands to the space mining drill
- Crafted a simulator for the drill using python that's able to emulate responses after receiving telecommand

Research Interests

- Long-horizon Task and Motion Planning Problems
- Multi-agent Reinforcement Learning
- Safety Control and Reachability Problem
- Meta-Learning

Teaching Experience

Lab Mentor

2023 **FF35/** Int

2023

2022

2019

2020

EE354 Intro to Digital Circuits, USC, Los Angles, CA

Deliver lecture-style instructions and provide assistance to a group of 30 students in a weekly lab section

Course Producer

CSCI360 Intro to Artificial Intelligence, USC, Los Angles, CA

Answer Piazza posts and provide informative grading feedback for a 200-student class

EE109 Intro to Embedded Systems, USC, Los Angles, CA

Provided hands-on help to a 30-student class during office hours and lab sections

Tutoring

AP Computer Science & AP Physics

- One-on-one teaching to four high school students on various subjects
- Demonstrated significant improvement in class grades and high AP scores

Volunteer Experience

FRC Team 2659 RoboWarriors Software Mentor, Bishop Alemany High School, Mission Hills, CA

- 300+ hours dedicated to mentoring high school students robotics team focusing on design, integration, and iteration for electrical, software, and control system equipment for autonomous robot
- Designed a course titled "Robotics: from Theory to Applications", and deliver a lecture for 2 hrs/week to students

Skills

>5 years Python, Java, C/C++, JavaScript, HTML, Git

>2 years PyBullet, ROS, Linux, MATLAB, LATEX