JAMES LI

@ jjli@ucsd.edu ✆ +1-858-309-2372 in linkedin.com/in/james-j-li ○ github.com/JamesOnEarth

EDUCATION

Bachelor of Science
University of California, San Diego

📅 Sep 2018 – June 2021

- Computer Engineering, 3rd Year, Provost Honors, HKN, *3.83*

- Related coursework: Objected-Oriented Programming, Data Structures, Software Tools, Discrete Mathematics, Mathematics for Algorithms and Systems Analysis, Computer Organization and Systems Programming, Advanced Data Structures, Analog Design, Circuits and Systems, Components and Circuits, Linear System Fundamentals, Components and Design Techniques for Digital Systems, Design and Analysis of Algorithms, Theory of Computability, Software Engineering

EXPERIENCE

Research Intern
UCSD ECE Summer Research Internship Program

📅 June 2020 – Now 📍 San Diego, California

- Developing a IOT RC car that will be used in ECE curriculum such as ECE 140
- Implementing communication and networking API using MQTT, sockets to enable car-to-car, car-to-cloud, and car-to-computer communication
- Prepares weekly scrum updates and documents research process
- Technologies: Python, MQTT, Firebase, mySQL, WebSockets

Software Engineer Intern
Duplicall Co. Ltd

📅 June – August 2019 📍 Shanghai, China

- Developed a backend program that separates a mono-channel two-speaker audio file to speaker-partitioned audio files
- Separates speakers based on speaker identity to improve automatic speech transcription accuracy
- Interfacing and implementing Kaldi speaker verification technology and Python libraries to achieve speaker segmentation and clustering
- Technologies: Python, numpy, Kaldi, scikit-learn, PyAudio

PROJECTS

IEEE Robocup Soccer, Team Lead

📅 October 2019 – Now

- Developing a soccer-playing robot to compete in the international Robocup soccer league
- Team lead, responsible for arranging weekly meetings and leading technical workshops
- Technologies: C, C++, STM32

Autonomous Line Vehicle, GrandPrIEEE, Most Unique Design Award by IEEE

📅 September 2018 – June 2019

- Developed a RC vehicle that tracks and follows white line with line scan camera
- Implemented PID controller, designed PCBs, and experimented with mapping algorithms
- Awarded Most Unique Design Award by IEEE UCSD Branch
- Technologies: C, C++, Python, Arduino, Autodesk EAGLES

SKILLS

Languages:
Confident with C, Java, Python
C++, JavaScript/HTML/CSS experienced

Experienced Technologies:
Verilog, MATLAB, Latex, OpenCV, Unix/Linux, Shell Script, Autodesk EAGLE, Node.js, ARM, AWS, Azure, Firebase, MQTT, mySQL