

Juqy Chen

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*Phone number

*Address

SKILLS

- ☐ Python, C, C++, HTML/JavaScript
- ☐ Arduino, PSpice, KiCAD, ANSYS, MATLAB
- ☐ Creo, Onshape, 3D Printing, Soldering
- ☐ Mandarin (native), English (fluent)

EDUCATION

University of California, San Diego

Bachelors Degree, Electrical Engineering, Sophomore

September 2023 - July 2027 (expected)

La Jolla, San Diego

RELEVANT EXPERIENCES

Member, Team Binary Bandits ([Lab 4 \(google.com\)](#))

(April 2024-June 2024)

ECES - Final Project Robot Competition, University California of San Diego

- Built and prototyped the photoresistor circuit reducing environment light distractions; increased the performance of robot from 9 to 19 loops on the track.
- Designed two versions of CAD for robot chassis, significantly increase motion stability at assembly process
- Tested multiple PID values and discussed different outputs with teammates to improve competition performance.

Research Assistant, Project- Research on Thermoelectric Cooling Applications

Institute of Electrical Engineering, Chinese Academy of Sciences, Beijing, China

(June 2022-September 2022)

- Constructed an auto-control system using STM32 MCU based on evaluating different cooling methods
- Built prototypes and performed simulations from ANSYS software to achieve -5°C cooling effect

Structural Technician, Programmer, Team 5451

FIRST Robotics Competition, Beijing, China

(February 2021- May 2022)

- Assembled and tested the climbing unit increasing performance of robot to top 4/48 teams
- Provided technical support to ally teams which helped win the Gracious Professionalism award

VOLUNTEER EXPERIENCES

Co-founder, Teacher

Parental Teaching Kid Community, Beijing, China

(June 2021-August 2023)

- Founded online teaching program to offer free STEM courses for K-12 students during COVID-19
- Developed a student group of 200 and help recruit 50 teachers from parents of different professions
- Taught actively 2 hours/wk of Science with a class of 5 middle school students.

AWARDS

- Provost Honors (Winter, Spring Quarter 2024)
- Gracious Professionalism Award, RCC Qianjiang International Robotics (2021)