Juqy Chen

juc052@ucsd.edu   *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   **September 2023 - July 2027（expected）**

Bachelors Degree, Electrical Engineering, Sophomore   *La Jolla, San Diego*

RELEVANT EXPERIENCES

Member, Team Binary Bandits (`Lab 4 (google.com)` **)**

ECE5 - 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℃ 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)