

Xiaoye Zuo (Lavita)



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Education

B.S. Computer Engineering

Minor: Business

UCSD | 2018-2022 |

GPA: 3.778

Skills

Languages:

Java, Python, MATLAB, C

Software :

PyTorch, OpenCV, SolidWorks,
Photoshop, Adobe Illustrator

Extra-Curricular

Volunteer

@ Project in a Box

- Taught k-12 students basics of

Arduino and circuits

- Debugged hardware and software
issues occurred during projects

Volunteer

@ Envision MakerSpace

- Assisted students with project tools
like drills.

- Helped maintain an ordered and
welcoming lab space.

Active

@ Phi Sigma Rho

- Promoted sisterhood for women in
STEM fields

Member

@ HKN

- Pursued academic excellence in the
honor society of IEEE

Research and Projects

Sep'19-now Stair-climbing Robot

- Built an autonomous stair climber to carry objects.

- Programmed Raspberry Pi 3 in Python with OpenCV.

- Examined leg-wheel designs and edge-detection algorithms.

Sep'19-now GEAR (Guided Engineering Apprenticeship in Research)

- Assisted in research on attacks and defenses of adversarial samples in the ACES lab.

- Analyzed existing CNN models in Pycharm using OpenCV.

June-July'19 Solar Panel Calculator

- Created an Excel-based calculator to display the energy efficiency using online databases.

- Showcased the calculator with four teammates.

Mar-June'19 Laundry Machine Monitor

- Implemented a monitor to check the availability of laundry machines

- Designed a circuit with Arduino Uno, a WiFi module, and photoresistors.

- Updated the real-time laundry status onto a website.

Aug-Sep'18 Line-following Robot

- Built a line-following vehicle based on PID control.

- Designed in SolidWorks and 3-D printed the chassis.

- Collaborated with teammates to test the algorithms

Work and Experience

April'20-now Vice Chair External (@IEEE UCSD)

- Managed sponsorship portfolio of diverse corporates.

- Engaged the engineering and business community at UCSD with inspiring projects and workshops.

Mar'20-now Tutor (@ECE101)

- Promoted online discussions about course materials.

- Explained digital signal processing practices in MATLAB.

Nov'19-now Events Coordinator (@Project in a Box)

- Planned creative social activities to de-stress engineering students.

- Contributed to technical and soft-skill workshops.

Sep'19-Dec'19 Quarterly Project Mentor (@IEEE)

- Provided resources and advice for three teams.

- Assisted in organizing biweekly technical workshops.

Aug-Sep'19 Global Seminar (@UK, Ireland)

- Studied abroad for five weeks in Dublin and London.

- Discussed organizational culture and diversities with managers during company tours at KPMG, and Factset.

Aug'18-now IDEA Scholar (@JSOE)

- Promoted personal and professional development opportunities to engineering students.

- Maintained a tight-knit community of students, alumni, faculties, and companies.