Drake Lin

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Summary

Driven undergraduate with broad technical knowledge in electrical, mechanical, and aerospace engineering

Education

2019 - CURRENT | UC BERKELEY

Electrical Engineering and Computer Science / Mechanical Engineering minor | Class of 2023

- Technical GPA: 4.0
- Related coursework: CS61A (Python), CS61B (Java), EE16A + EE16B (Circuit Analysis and Design)

2018-2019 | OHLONE COLLEGE

- GPA: 4.0
- Related coursework: CS-113: Discrete Structures, CS-102: Introduction to Programming Using C++

Leadership/ Experience

ENGINEERING OFFICER | SPACE TECHNOLOGIES AT CAL | 2019 - PRESENT

- Mechanical lead of QubeSat, mission number 9 for NASA's CubeSat Launch Initiative manifest list
- Used SolidWorks and ANSYS to design and test structure of CubeSat
- Developed CubeSat power systems using KiCad
- Lead project to configure UC Berkeley's ground station to receive signals from NOAA GOES geostationary satellite
- Coordinated content for the club website and managed club resources

RESEARCHER | LAWRENCE BERKELEY NATIONAL LABORATORY | 2019 - PRESENT

- Developed script to automate the data collection and data analysis process for nitrogen-vacancy analysis
- Converted Matlab scripts into Python, simplifying file to file interfaces and improving readability
- Shortened testing time by over 90% and data analysis time by 70%

MEMBER | CAL AEROSPACE SAE | 2019 - PRESENT

- Integrated pressure and velocity sensors with microcontrollers to send/receive data during test flights
- Developed telemetry and propulsion test bench for more accurate results

JUNIOR MENTOR| COMPUTER SCIENCE MENTORS | 2020 - PRESENT

- Taught 4 students linear algebra and circuit analysis for 1 unit adjunct course for EE16A
- Helped develop the class curriculum for 120+ students

Skills

PROGRAMMING LANGUAGES: JAVA, C++, PYTHON, SQL, MATLAB
SOFTWARE: KICAD, SOLIDWORKS, OPENROCKET, MICROSOFT OFFICE SUITE
OPERATING SYSTEMS: WINDOWS AND LINUX
SPOKEN LANGUAGES: ENGLISH AND CHINESE