Michael (Yunze) Li

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Education

University of California, Berkeley, CA *2023-2027*
Intending B.S. Mechanical Engineering or B.A. Physics
Courses: Python for Engineers, Physics: E & M, Multivariable Calculus, Financial Accounting

Peddie School, Hightstown, NJ *2019-2023*
GPA: 3.9/4.0
Cum Laude Society

Technical Experiences

Formula Electric at Berkeley, *Accumulator R&D Engineer* *2023-Present*

- Developed ~550V 21700 Li-ion battery custom pack by conducting busbar thermal calculations, electrical calculations, material analysis, and CAD design through SOLIDWORKS.
- Documented all design processes into the team database.

FIRST Robotics, *Engineering Lead (2021-22), Driver (2021-22), Technician (2019-20)* *2019-2023*

- Led a 30+ member engineering subteam to build a 120-lb teleoperated and autonomous robot in 3 months. Won 7 out of 8 major events while I was in the lead.
- Oversaw the drafting and revising of complex CAD drawings such as telescoping arms, mechanical linkages, and leverage systems. Carried out motor output and power transmission calculations and coordinated communication between engineers and programmers.
- Experienced in common power tools, hand tools, and basic lab machines like bandsaws, arbor presses, drill presses, and belt sanders.

Independent Research (Material Science) *2022 Summer*

- Conducted a 14-week independent research on 3D-printed compliant mechanisms. Developed a novel approach to run small-scale fatigue tests on custom compliant samples, and *wrote a paper that was nominated for publication in the highly selective Pioneer Research Journal.*

Independent Research (Physics) *2021 Summer*

- Conducted a 16-week independent research on 100% frontal collision of an SUV vehicle, analyzed complex graph of forces and stress generated from the collision through finite element analysis using Altair HyperWorks, HyperMesh, and HyperGraph, and generated a paper that *won national semi-finalist in Yau Science Award and third place in ISEF Regional.*

Leadership Experiences

Philosophy Society, *Founder* *2020-2023*

- Initiated collaborations and formed partnerships with the Hotchkiss School, NYU Philosophy Forum, and Manitoba Association for Rights and Liberties (MARL) in Canada, proudly *led multiple international symposiums with 100+ participants in each session.*

Amphion*, Editor-in-Chief* *2021-2023*

- Coordinated the flat design process by integrating ideas, contextualizing drafts, and leading progress-check meetings. Developed the final magazine layouts for each year's edition.
- Mentored new members on using Adobe tools for 3+ months each year.
- *The Amphion magazine was awarded REALM First Class, the top honor in a nationwide contest.*

Skills

Technology || *Autodesk Inventor • SOLIDWORKS • OnShape • Python • Microsoft Office Suite • Logger Pro*
Design || *Adobe Illustrator • Adobe Premiere Pro • Adobe After Effects • Adobe InDesign • Adobe XD*

Hobbies

Handpan (Switzerland instrument created in 1999), Guitar, Video Editing, Ultimate Frisbee, Ink Drawing.