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| **EDUCATION** | | | |
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| **University of California, Berkeley**  *B.S. in Mechanical Engineering*  *Minor in Electrical Engineering and Computer Science (EECS)* | | Expected May 2024  GPA: 3.697  Generation Change Scholarship | |
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| **EXPERIENCE** | | | |
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| **Software Developer Intern @ Mariner Finance LLC** | | | *Summer 2021* |
| * Focused on the Business Intelligence aspect by using POWER BI and SSRS for business analytics & reporting * Worked on database management using SQL and maintained existing reports and their relationships to the database * Created a report pulling data from across databases to show usage rates and trends for all other company reports | | | |
| **Solar Vehicle Racing (CalSol) @ Berkeley** | | | *Fall 2021 – Ongoing* |
| * Ran impact tests using ANSYS in which the most updated model is imported and corrected recognized, material properties are defined, rosettes are created, oriented selections are highlighted, and layups are formatted before FEA composite simulations are ran. Simulations take days to set up and run due to the model complexity. * Manufactured carbon fiber aluminum honeycomb sandwich structural panels using vacuum sealing technique | | | |
| **Space Technology and Rocketry (S.T.A.R) @ Berkeley** | | | *Fall 2021 - Ongoing* |
| * On the Stage Separation team which focuses on creating a device that can safely separate a rocket section midflight. * Modified existing and designing new features for the Avionics Bay with SOLIDWORKS to make it user accessible. * Redesigned the separation device so that the release springs remain intact during the controlled explosion. | | | |
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| **PROJECTS** | | | |
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| **Introduction to Product Development Course Project – “G.A.R.B.”** | | | *Summer Semester 2022* |
| * Designed a smart trash can that could * Fgsgfds * Fdsgdfg | | | |
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| [**Electronics for the IoT Course Project – “Rider’s Guard”**](https://youtu.be/_jvwh5_ypHE) | | | *Fall Semester 2021* |
| * Created a device that incorporates a brake light (BLS) and emergency alert system (EAS) for electric skateboards. * The BLS warns others of the rider’s state of motion using IMU and code that interpreted acceleration data. * The EAS is programmed to identify potentially dire situations and pings a GPS position message via the internet. * Became familiarized with PYTHON syntax, VS CODE, and GIT distributed version control system as well as hardware components such as the IMU module and ESP32 microcontroller while working on this project. | | | |
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| [**Man. and Design Communication Course Project – “Grabber Cane”**](https://youtu.be/psFvsSA29Rs) | | | *Summer Semester 2021* |
| * Designed a product geared towards the elderly that functions as both a walking cane and a device to grab small objects off of the ground. * Used SOLIDWORKS to create the 15 custom or modified assembly components. * Incorporated GD&T, table of fits, and CAD drawings to make sure components fit together accordingly. * Became more adept at SOLIDWORKS, utilized Gantt Charts and documentation for organization, and became familiar with Blender, Premiere Pro, and Photoshop | | | |
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| **SKILLS & INTERESTS & AWARDS** | | | |
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| Designing: | SolidWorks • ANSYS • Autodesk Inventor & Fusion • MS Office Suite | | |
| Manufacturing: | Rapid Prototyping (FDM, SLA) • Laser Cutting • Welding • Soldering • GD&T | | |
| Programming: | MATLAB • Java • Arduino • SQL • HTML/CSS • Git • VSCode • IntelliJ • Power BI | | |
| Interests: | Digital Photography • Electric Longboarding • Cooking • Soccer • Videography | | |
| Awards: | MIT BWSI 2019 Teamwork Award • [VEX Robotics Division World Champions 2018](https://www.youtube.com/watch?v=iQW5K9HkbYY) | | |