AARON J. FANG

Newbury Park, California
Email: aaron.fang@outlook.com
Cell: +1 (805) 603-8643

EDUCATION

California Polytechnic State University, San Luis Obispo — September 2019 — Present
Third-year student — expected graduation December 2023
Honors Program; B.S. **Mechanical Engineering** — Intended Mechatronics Concentration
GPA: 3.94/4.00

WORK EXPERIENCE

Apple Manufacturing Design Intern | Cupertino, CA — June 2020 — June 2021
- Defined and brought up manufacturing process of over 150 internal parts across two programs during prototyping and engineering validation builds.
- Worked with cross-functional engineering groups to close key manufacturing process issues in a demanding, fast-paced environment, requiring daily overseas communication with internal Apple and external Contract Manufacturer teams in Mainland China.
- Collaborated with internal Product Design Engineers to increase manufacturability of parts.
- Spearheaded process changes for a new small part, resulting in a 52% part cost reduction.
- Developed a new-to-Apple process, removing more than 30 challenging structural welds.

Cure4Humanity Intern | Newbury Park, CA — July 2018 — August 2018
- Sourced supply chain information for a custom hydroponic growing system.
- Processed cost data to justify project feasibility.

CLUB EXPERIENCE

Cal Poly Racing Suspension Lead | San Luis Obispo, CA — September 2019 — Present
- Defined suspension requirements for 2022 Formula SAE car, such as target compliances, spring rates, and factors of safety based on acceleration, cornering, and braking load cases.
- Iterated kinematics development based on tire data, packaging, and structural requirements.
- Designed new front-anti roll bar system resulting in 70% weight savings over previous design.
- Analyzed uprights, hubs, and front anti-roll bar for 2022 car to meet stiffness goals.
- Collaborated with other suspension teammates to delegate work and meet deadlines.

CodeNation Co-President | Newbury Park, CA — September 2017 — June 2019
- Developed curriculum for a 50-person programming class offered to the community gratis.
- Mentored Java, C++, and HTML in a classroom setting.

SKILLS

Language	Mandarin Chinese, Spanish, English
Design/Analysis	NX, Teamcenter, SOLIDWORKS, Onshape, ANSYS, JMP Pro 15
Code	C++, Java, Python, Arduino, MATLAB
Manufacture	CNC/Manual Milling, CNC/Manual Turning, Laser Cutting/Welding, 3D Printing, Metal Stamping, Die Cutting, Metal Injection Molding, Sintering, Restriking, Tapping, Passivation, Cold Drawing

AWARDS

President's List Cal Poly, San Luis Obispo — June 2020
Awarded for maintaining above a 3.5 GPA during the Fall, Winter, and Spring 2020-21 academic year

Hackademia 2018 Overall First Place; First Place in the Open Source Rover Category — July 2018
- Created intuitive user interface for creating and executing remote robotic rover paths.
- Used Raspberry Pi, Java, JavaScript, Python and the Open Source Rover for an interactive UI/UX.
- Developed new path tracking algorithm tailored to the kinematic constraints of the rover.