Arnav Akarte

(408) 391-1210 • Los Angeles, CA • arnavakarte@gmail.com

Detail-oriented mechanical engineer with strong ties in design and manufacturing processes. Experienced team player with extensive training and knowledge. Driven and mature college student with experience in a professional environment. Majoring in Mechanical Engineering with a Minor in Business Administration.

EXPERIENCE

Front Desk Manager / Customer Service Representative July 2020 - August 2021 Fly Bay Area | San Carlos, CA

- Manage and assist passengers in informing and guiding purchasing decisions
- Organize and train other staff members accurately and efficiently
- Execute and coordinate schedule changes based on aircraft availability, maintenance needs, and pilot schedules
- Provide impeccable customer service by addressing customer concerns, needs, and requests to help them make an informed decision

Undergraduate Research Assistant / Thesis Co-Author Jan. 2022 - Dec. 2022 Loyola Marymount University: Mechanical Engineering Department | Los Angeles, CA

- Research and analyze additive manufacturing using titanium alloys
- Cooperate and coordinate with graduate students to effectively execute experiments to yield meaningful results
- Develop and review major parts of a thesis based on the effects of heat treatment and stress relievers on Titanium alloy Ti6Al4V

Machine Shop Assistant Oct. 2022 - Oct. 2023 Loyola Marymount University: Mechanical Engineering Department | Los Angeles, CA

- Ensure safety and proper machining procedures at the campus Machine Shop
- Implement learned skills to accurately machine and manufacture parts and samples for classes and research
- Experience with Haas Mini Mill and Haas Lathe
- Act as a teachers assistant to enhance and support the learning environment
- Proficiency in CAD and CAM in both Fusion 360 and Solidworks

LMU Rocket Team Sept. 2023 - Present Loyola Marymount University: Mechanical Engineering Department | Los Angeles, CA

- Learn, design, and test a hybrid-fuel rocket and static test fire stand
- Work with teammates to design the solid fuel, P&ID, sensors, nozzle, test stand, ignition, and injector
- Specifically in charge of nozzle design and calculations, test fire stand design and FEA, various parts of the injection and ignition mechanisms
- Ability to problem-solve and quickly grasp new concepts and skills

Archbishop Mitty FRC Robotics / Chassis Lead Aug. 2016 - May 2020 Archbishop Mitty High School | San Jose, CA

- Develop proficiency in design process and manufacture a robot chassis and drivetrain system
- Leadership skills to lead and manage a team of students, make decisions, and resolve conflicts
- Coordinate meetings and communicate with teammates to create an efficient and functional end product
- Proficiency in CAD and CAM in both Fusion 360 and Solidworks

EXTRACURRICULAR PROJECTS

FPV Racing Drone

- Develop proficiency in soldering and electrical skills
- Program and troubleshoot the Flight Controller and software

Electric Skateboard

- Gain knowledge about electric power
- Custom 3D modeled and manufactured motor mount

OTHER EDUCATIONAL PROJECTS

PID Drone Control System

- Develop proficiency in matlab and simulink
- Program and troubleshoot drone to compete with a machine learning AI

Rope Traversing Robot

- Advance additive manufacturing skills, prototyping skills, machine design calculations
- CAD, CAM, slicing software (Prusa) for custom made parts

EDUCATION

Archbishop Mitty High School Aug. 2016 - May 2020 • GPA: 3.895

- Senior Tech Team Lead, Archbishop Mitty Tech Desk
- Senior Lead, Archbishop Mitty Robotics Team Lead

Loyola Marymount University Aug. 2021 - May 2024 • GPA: 3.03

- Research Assistant, LMU Mechanical Engineering Department
- Machine Shop TA, LMU Machine Shop
- Event Operations Assistant, LMU Campus Events

SKILLS

Proven Leadership | Efficient Communication | Impeccable Customer Service | Multi-faceted Management | Resourceful Teamwork | Demonstrated Passion & Motivation | CAD and CAM