Rhonin Faruqi

Menlo Park, CA ● rhoninfaruqi@gmail.com ● (650) 288-5762 ● https://www.rhoninfaruqi.com

EDUCATION

UC Santa Barbara Santa Barbara, CA

Combined BS/MS Mechanical Engineering Program (GPA: 3.85, Dean's Honors) September 2022 - June 2027

- Dual specializing in Control Systems and Structures

WORK EXPERIENCE

Mechanical Engineering Intern June 2025 - September 2025

Plantd Oxford, NC

- Worked on designing and manufacturing 3 new factory machines to increase production rates across 2 production lines
- Assisted in daily manufacturing operations, ensuring smooth workflow and adherence to quality standards
- Used Fusion 360 to model and design a new weigh conveyor capable of 40% more throughput for the factory floor
- Performed structural analysis to ensure loading of critical components adhered to required safety factors
- Rebuilt and upgraded issue tracking software and UI, resulting in a 65% increase in documentation and faster issue resolution times
- Used Tableau to build a production dashboard used by 2 different team managers, reducing manual reporting time by approximately 4 hours per week

Engineering Intern June 2024 - September 2024

West Coast Catheter Redwood City, CA

- Designed, 3D printed and used 15 custom testing jigs to collect data on proprietary catheter technology
- Used Solidworks to create 36 part and assembly drawings, building the company's entire database of engineering drawings, in line with GD&T standards
- Conducted over 20 controlled burst test experiments to gather data for FDA clearance submission
- Created a spare part tracking system using Excel, resulting in thousands of dollars of cost savings

Semiconductor Wafer Bonding Assembly March 2025 - June 2025

UCSB Nanofabrication Laboratory Goleta, CA

- Designed 20+ 3D models, drawings and assemblies for high temperature bonding of semiconductor wafers to be used by the entire laboratory, including researchers from Google Quantum, Northrop Grumman and Teledyne
- Coordinated with international suppliers and manufacturers to ensure production quality and acceptable deliveries

OTHER EXPERIENCE

Dynamic Counterweight Capstone Project September 2025 - June 2026

True Digital Surgery Santa Barbara, CA

- Leading a team to create a dynamic counterweight solution for a robotic exoscope system that reduces total system mass by over 30%
- Developing and fine tuning PID Control Systems to actuate a mass based on sensed location of multi-DOF robotic arms
- Designed and calibrated an integrated load cell system to accurately measure global center of mass

Rocket Nozzle Flow FEA Analysis November 2025

Ansys Santa Barbara, CA

- Built a nonlinear FEA model to analyze thermal strains in a bolted F1 nozzle assembly

Robotics & 3D Printing Instructor June 2024 - August 2024

iDTech Palo Alto, CA

- Taught students 3D modeling with Blender, operation and maintenance of 3D printers
- Guided students through fundamentals of robot design with 3 different projects

SKILLS

- CAD Software: Solidworks, Onshape, Blender, Autodesk Fusion
- FEA Software: Solidworks Simulation, COMSOL, Ansys
- Technical Languages: MATLAB, C++, Python, Java, Bash

PROJECT PORTFOLIO