

ASHIK SIMON

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EDUCATION

University of California San Diego

B.S. in Mechanical Engineering GPA: 3.74 (Junior)

La Jolla, CA

September 2018 – June 2022

EXPERIENCE

Engineering Intern

General Dynamics NASSCO

Oct. 2020– Present

San Diego, CA

- Reviewed and updated documentation/processes for the ESB and TAO ship programs
- Utilized AutoCAD to design manufacturable modifications for existing machinery
- Actively participated in implementing and monitoring continuous improvement initiatives to improve safety, improve quality, reduce cycle time, and reduce costs.
- Attained an understanding of shipbuilding logistics by regularly attending meetings with vendors, engineers, and customers

Mechanical Design Engineer

Yonder Dynamics

Oct. 2019 – Present

UCSD La Jolla, CA

- Collaboratively worked with a group of student engineers to build a robot for the University Rover Challenge
- Created a lightweight, high dexterity robot arm with six degrees of freedom
- Worked with Solidworks CAD modeling/simulation to perform risk reduction utilizing FEA
- Developed rotating base out of acetyl that is capable of withstanding high loads while remaining lightweight
- Designed cost-effective parts that are manufacturable with on-campus equipment, primarily 3D printing and lasercutting

Fabrications Engineer

AIAA Design-Build-Fly

Oct. 2019 – Present

UCSD La Jolla, CA

- Worked with a team of students to design, fabricate, and demonstrate the flight capabilities of an electric-powered, radio-controlled aircraft
- Constructed a lightweight 5 foot wingspan airplane airframe weighing under 3 kilograms
- Utilized multiple composites and adhesives for layups including carbon fiber, kevlar, and fiberglass to achieve desired strength properties
- Applied mold making concepts to manufacture positive molds from foam using hot-wire cutters
- Troubleshooted and made repairs on the field to minimize testing downtime

Subsystem Engineer

FIRST Robotics Competitions Alpha Knights

Sep. 2016 – June 2018

San Marcos High School, CA

- Oversaw the integration of multiple systems by designing and fabricating parts as well as delegating tasks to newer members
- Thoroughly researched components and followed competition policies and procedures
- Attended FIRST worlds championship after obtaining the Rookie All-Star Award for innovative design

TECHNICAL SKILLS

Modeling and Analysis: Autodesk Fusion 360, Autodesk Inventor, Solidworks

Programming Languages: Java, Php, Python, MatLab

Fabrication & Prototyping: Woodshop Machinery, CNC, Lasercutting , 3D Printing, Soldering