

Joseph Nahm

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EDUCATION

University of California Santa Barbara

Bachelor of Science in Mechanical Engineering

Santa Barbara, CA

Expected graduation: Jun 2021

- **Relevant Coursework:** Fluid Dynamics, Circuit Design, Thermodynamics, Statics and Dynamics, Strength of Materials, Machine Shop, Physics, Chemistry, Control Systems, Structural Analysis, ME lab, Manufacturing & Materials, Aerodynamics, Radiation
- **Cumulative GPA:** 3.92/4.00 **Dean's Honors List**

EXPERIENCE

Naval Facilities Engineering Command

Engineering Lead

Santa Barbara, CA

Sept 2020 - Present

- Designing a modular solar parachute for remote sea applications 100 ft subsea with power output of 50 W-200W (modular design)
- Building an underwater solar testing rig to obtain power output data vs. depth of Silicon cells to compare to Navy's data using GaInP cells
- Using Six Sigma to create engineering specifications from Navy, DOE, and investor input for design and manufacture of scaled prototypes

Polydrops - <https://www.polydrops.com/>

Mechanical Engineer/Process Manager

Glendale, CA

Jul 2020 - Sept 2020

- Applied design for manufacturing principles to optimize tear-dop trailer paneling cost, machinability, weight and thermal conductivity
- Tasked with full assemblage of trailer including welding, metal/woodworking, HVAC, wiring, and CNC machining of custom components
- Used lean manufacturing to organize an assembly line in our work-space, decreasing redundant supply and variability in product
- Trained new employees in detailed understanding of tools and assembly process to eliminate fundamental inefficiencies in our operations

Northrop Grumman - <https://www.northropgrumman.com/>

Quality Engineer Intern

Manhattan Beach, CA

Jun 2019 - Aug 2019

- Responsible for rejecting nonconforming articles and foreign object damage prevention for parts on James Webb Telescope
- Created intuitive macro-spreadsheets to substitute needlessly complex data-logging programs to boost work-pace of Quality team
- Used root cause analysis to identify Getter inspection process improvement while working with inspectors in Clean Room
- Convinced Vice President of Quality to change tooling and lab locations using Cost/Benefit-Analysis and approvals from lead engineers

Reasi (Real Estate Blockchain Startup) - <https://www.crunchbase.com/organization/reasi>

Software/Research Assistant

Santa Monica, CA

Jun 2018 - Aug 2018

- Gathered data on timeshare industry opportunity and worked on market analysis and financial projections of business plan
- Worked on front-end of website and used SCRUM meetings to continuously iterate and improve on product deliverables

LEADERSHIP EXPERIENCE

Tau Beta Pi - <https://www.tbp.org/>

President

Santa Barbara, CA

May 2020 - Present

- Electing officer board and working with them to plan events like Pi Day, fundraiser and bookkeep, and build new industry relationships
- Building connections with scholarship and other campus organizations to raise awareness and increase sponsorship of our organization
- Holding events like *How to College* where TBP members (top 1/8th of their class) can share their college experiences with underclassmen
- Submitting monthly reports to national TBP headquarters and attending conferences to fulfill chapter requirements

Engineers Without Borders - <https://www.ewb-usa.org/>

Engineering Team Lead

Santa Barbara, CA

October 2018 – May 2020

- Led team of engineers in designing and prototyping DIY solar panel system to fulfill energy needs in La Sabana community in Panama
- Researched and developed a rainwater catchment system to prevent harmful organisms from contaminating community's drinking water

SKILLS

- MATLAB, CAD, Abaqus, GD&T, System Dynamics, Entrepreneurship, Mechatronic Systems, Quality Control, Material Selection, Product Assembly, Python, Vibrations and Control, Machine Shop Technology, Manufacturing Processes, Six Sigma, Circuit Theory and Component Design, Heat transfer, Fluid Mechanics, Welding, and Computer Aided Engineering, Javascript