

Katie Naretto

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Professional Summary

- Bioengineering student with a passion for medical device design and development
- Self-motivated with excellent communication, organizational, and time management skills
- Thrives in a collaborative environment and enjoys working with others

Education

San Diego State University

- Graduate Student in Bioengineering-Biomechanics program - GPA: 3.94 August 2024 - Present
- Bachelors in Mechanical Engineering - GPA: 3.55 2020 - 2024

Santa Barbara City College - GPA: 3.58

2018 - 2020

Dual Enrollment Program - attended classes that qualified for both high school and college

Dos Pueblos High School, Goleta, CA - Academic GPA: 4.4

2016 - 2020

High School Diploma, June 2020

Dos Pueblos High School Engineering Academy

Skills and Qualifications

- Google and Microsoft Suite
- Solidworks
- AutoCAD
- Revit
- MATLAB
- MEMS clean room training

Experience

Jensen Hughes

May 2024 - August 2024

- Fire protection engineering work including sprinkler and alarm layout, smoke control, life safety reviews, code consulting, and accident reconstruction forensics
- Used AutoCAD to layout sprinkler heads, piping systems, fire alarm systems, and conduit while staying compliant with required code sections
- Performed hydraulic calculations to determine the pressure and water flow required at each sprinkler head
- Performed voltage drop calculations on conduit I laid out for fire alarm systems
- Investigated vehicle crash test information and created 3D vehicle models intended for accident reconstruction

Hiro PPE

August 2023 - May 2024

- Designed and manufactured an elastomeric half-mask respirator that can house gas sensors which detect the surroundings of the mask
- As team lead, I oversaw all aspects of the project including design, manufacturing, testing, and correspondence with industry professionals

- Collaborated with Hoff Engineering to integrate a pleated filter custom made to accommodate the team's mask design

NanoFab.SDSU Lab Researcher

January 2022 - Present

- Member of the microfluidics team that designed an air filtration device that could collect an air sample and detect if Covid-19 is present in a room
- Presented Project at Student Research Symposium in 2022 and 2024
- Clean room training and certification in negative photolithography. Clean room certification in Pyrolysis in progress.
- Research that involving transistors fabricated from glassy carbon that can actively detect various bioanalytes (i.e. Glucose detection, Troponin detection, etc.)

Activities and Honors

- Biomedical Engineering Society - VP Internal Relations
- San Diego State University Ski and Snowboard Team - Treasurer
- National Honor Society - Lifetime Member
- California Scholarship Federation - Lifetime Member