Aaheli Das

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EDUCATION || San Jose State University

M.S., Biomedical Engineering, Master's project focussing on enhancing a Robotic Hip Exoskeleton Aug 2025 - Present
B.S., Biomedical Engineering, Additional Focus: Computer Science Aug 2021 - May 2025
Relevant Coursework: Physiology, Biosensors, Programming, Microsystems, Biomaterials, Polymers, Biomechanics, Tissue Engineering, Design Methods, Medical Regulations, Manufacturing, Digital Health

EXPERIENCE

Biomedical Engineering Society // Mentorship Chair, San Jose, CA Jun 2025 - Present
- Designing and launching the BMES mentorship program, pairing upperclassmen with underclassmen.
- Fostering academic support, professional guidance, and promoting long-term engagement within the organization.
- Coordinating incentive systems and recognition activities that encourage participation from mentors and mentees.
- Planning and facilitating events that built connections, strengthened community.

Bay Area Biomedical Device Conference // Vice President, San Jose, CA Jun 2024 - May 2025
- Orchestrated the event from start to finish, directing a team under my leadership of 50+ leads and volunteers.
- Designed the conference program and booklet; arranged the location, catering, seating and parking for 200+ attendees.
- Moderated 12+ speaker sessions and distributed attendees' resumes to hiring companies.
- Led the 2025 conference, achieving record attendance and revenue growth over the previous year.

MEDFREE Incorporation // Intern, Newark, CA Jun 2024 - Aug 2024
- Conducted engineering tasks for medical devices, including building, testing, and problem-solving.
- Documented experiments and maintained records in alignment with regulatory standards while managing inventory.
- Collaborated with cross-functional teams to align on project deliverables and timelines, ensuring equipment readiness.
- Coordinated with merchants and vendors to source materials and resolve technical needs.

PROJECTS

Mechanical Engineering Lab, San Jose State University
- Innovating and improving an existing prosthetic that will be used to enhance a patient's walking ability in the future.
- Making the device more user friendly as well as adding a transportable component to it making it an at home device.

School Development Projects, San Jose State University
- Simulated a kidney organoid-on-a-chip microfluidic system in COMSOL to optimize shear stress distribution.
- Built and coded a heart rate sensor with RaspberryPi using Python to detect BPM changes from emotional stimuli.

Cardiovascular Research Lab, San Jose State University
- Worked on developing a schematic that is able to degas the blood before it enters the instrument.
- Built an artificial heart valve targeting thrombogenicity to reduce the need of anticoagulation therapy.

SKILLS

Technology: SolidWorks, Fusion 360, AutoCAD, Slicer, Adobe Illustrator/Express, Pandas
Data Testing Tools: ImageJ, Minitab, LabQuest, Oracle, ELISA, LTspice, COMSOL
Instruments: Microscope, Centrifuge, RLC Circuit, Oscilloscope, 3D Printer, Instron, Pulsatile Flow Simulator
Programming Languages: Python, Java, SQL, C++, MATLAB, NetLogo
Soft Skills: Leadership, Detail-oriented, Organized, Adaptive, Problem Solving
Remote: Slack, Zoom, Microsoft Teams/Word/Excel/PowerPoint

ACTIVITIES & HONORS

Mentorship Chair for the Biomedical Engineering Society Jun 2025 - Present
Associate & VP of Conference Chair for the Bay Area Biomedical Device Conference Aug 2022 - May 2025
Members of: Biomedical Engineering Society (BMES), Society of Women Engineers (SWE), Society of Asian Scientists and Engineers (SASE), American Society of Mechanical Engineers (ASME), UX/UI Association, Fixit Clinic
Certifications: Autodesk Inventor, SolidWorks
Awards: Students Services Appreciation, Dean's Scholar