Vedavathi Gajula

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Education

Arizona State University
B.S.E. Biomedical Engineering
GPA: 3.96
Dean's List
New American University Scholar

Projects

Research Papers

- Bacterial Transformation
- Investigation on Proteins
- Chemistry of Membranes.

Biomedical Engineering Design

- Heart-Rate Monitor
- Blood Pressure Monitor
- Insulin Pump/CGM

Homeostasis

Compared the rate of recovery from cold in three different skin regions and drew conclusions about the vascularity of these areas.

Skills

Lab

Molecular • Cellular • Organism Levels • Algae Growth

Design

Fusion 360 • AutoCAD • JMP Pro • Autodesk Suite

Experience

AzCATI, Arizona State University | Lab Assistant
Mesa, Arizona | Jan 2022 - Present

- Assisting in the Algae Technology and Innovation Lab at Arizona State University.
- Created medias to promote and prepare Algae for growth inside incubators and nurture the process from birth to death of the Algae and help carry out tests at other labs inside Arizona State University.
- Responsible for the production team of Algae to send out biomass to other labs for experimentation on Algae bodies.
- Promoted to position for Assistant to the Lab Supervisor.

Biomedical Product Design, Arizona State University | Student Designer
Tempe, Arizona | Jan 2022 – May 2022

- Researched about Tajikistan's healthcare situations and implemented a product design that could help reduce the expenditure of the citizens and increase the supply for blood pressure and heart-rate monitors.
- Calculated and statistically implemented the real-life conditions for citizens to afford medical care. Designed the product to be cheap, portable, reliable, and durable with a manufacturing supply that incentivizes workers as part of the program to support the economy as well.
- Currently assigned to working on a project that could potentially act as a prevention for a Type I diabetes patient to further stop from growing into a much worse Type II stage. This project is based on a team working to provide extensive research value for a device that could perform such action and help prevent the worsening of such a deadly disease.

Relevant Coursework (GPA: 3.96)

Arizona State University, Tempe, AZ

- General Chemistry (Grade: A)
- Introduction to Biomedical Engineering (Grade: A)
- Statistics for Biomedical Engineering (Grade: A)
- Biomedical Product Design and Device 1 (Grade: A)
- General Biology (Grade: B+)
- Calculus 1 (Grade: A-)
- Calculus 2 (Grade: A+)

Awards

2022 Dean's List – Spring '22
2021 Dean's List – Fall '21
2021 New American University Scholar
2022 Promotion – Assistant to AzCATI Lab Supervisor