Bennett Anderson

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Education

Iowa State University   Ames, IA
Bachelor of Science in Biomedical Engineering   Expected Graduation May 2027
Minor in Pharmacology   GPA: 3.53/4.00

Practical Experience

Undergraduate Research Assistant - *Iowa State University CBE Dept*   Jan 2025 - Present
- Designs experiments, for identifying individual genetic knockdowns from selection experiments and orthogonal validation tests for result verification.
- Performs transformations, minipreps, PCRs, gel electrophoresis, and other standard lab protocols and machinery to prepare genetic material for sequencing and produce experimental results.
- Utilizes custom MATLAB and Python code for genomic data management, namely low bp alignment with imperfect or noisy sequenced data, seeking genotype/phenotype relationship identification.
- Effectively uses PyMOL for protein & enzyme visualization, e.g. ligand binding analysis and structural comparison.
- Collaborates with one primary Graduate student, meets regularly with Principal Investigator to present progress, and presented to whole lab group semesterly findings.
- Practices BSL-1 safety procedures consistently, with comfortable understandings of lab equipment, and basic microbiology and biochemistry.

Leadership Activities

Biomedical Engineering 1040 Peer Mentor - *Iowa State University*   July 2024 – Dec 2024
- Led ~20 student class of 1st semester freshman in weekly, personally planned, 50-minute periods.
- Conducted 1:1 sessions to help students fulfill their individual goals, address concerns and difficulties, or direct students to the proper resources to do so.
- Planned and executed introductory events with faculty and students to build a supportive community.

Elected Lap Sim. & Testing Engineer - *Iowa State University*   August 2023 - November 2024
- Programmed MATLAB script for simple acceleration simulation to be utilized alongside cooling and efficiency predictions.
- Presented theoretical turnout of 3rd-party lap simulation to influence design decisions.
- Designed minor SolidWorks models for presentation of general design ideas within small sub team.
- Collaborated on test/workdays on various tasks, and otherwise to create positive team environment, including individual mentorship of a recently joined member.

Involvement

Tutor - *Iowa State University*   February 2025 – May 2025
- Provided personal academic support to improve performance in physics, and biology.

Model - *Iowa State Fashion Show*   January 2024 – April 2024
- Engaged with designers, directors, and other models from the ISU College of Design.
- Walked in the main show with 2 outfits, a merch photoshoot, and Nordstrom guest designer set.

Volunteer - *Food at First*   2023 - 2024
- Co-operated with a small team to help provide food for community members in need.

Other Employment

Barista - *Café Diem / Daytime Diner*   May 2023 – March 2025
- Managed shop workflow, storefront music, and tended to customers within a team of two to five.
- Trained incoming employees on procedure, general safety/cleanliness practices, and workflow.

Detailer/Shop Hand - *Shaffer's Autobody*   May 2021 – June 2023
- Tended to various detail-oriented tasks including car detailing, shop vehicle management, and more.
- Independently executed general tasks, experience with welding, grinding, and other power tools.

Skills & Software

Software: MATLAB | SolidWorks | Python | LaTeX | SnapGene | PyMOL | Microsoft Office

Technical/Lab: Experimental Design | Standard Microbiology Lab Techniques | Technical Presentation