

ALLEN FRAIMAN

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Portfolio: www.afraiman.com

EDUCATION

Boston University College of Engineering

B.Sc., Mechanical Engineering

GPA: 3.98/4.00 (Dean's list)

Boston, MA

Expected May 2026

Relevant Coursework:

Introduction to Engineering Design

Programming for Engineers (MATLAB, C)

Introduction to Computer Aided Design

Manufacturing Processes

SKILLS

Mechanical: 3D Printing, Laser Cutting, Soldering, Lathe, Milling, Wire EDM, Belt Sander

Design Software: Solid Works, AutoCAD, Autodesk Inventor, Fusion360, OnShape, Rhino3D

Programming Software: Python, MATLAB, C, Arduino IDE, HTML, CSS

EXPERIENCE

Regeneron Pharmaceuticals

Manufacturing Engineering Intern

Rensselaer, NY

May 2024 - Aug 2024

- Implemented process analytical technology to automate manufacturing processes.
- Developed a prototype for a single use manufacturing process, resulting in annual savings of approximately \$8 million.
- Presented the project at a company-wide poster exposition and a departmental conference.

Boston University

Undergraduate Research Assistant, Albro Laboratory

Boston, MA

Jan 2024 - May 2024

- Explored the application of Raman spectroscopy in detecting early indicators of osteoarthritis through cartilage health analysis.
- Enhanced the MATLAB Raman processing code by integrating multivariate analysis techniques to include subchondral bone components.
- Assessed the effectiveness of Raman spectroscopy in accurately measuring AGE crosslinks.

Boston University

Undergraduate Research Assistant, Ziegler Laboratory

Boston, MA

Jan 2023 - May 2023

- Conducted experiments to determine the feasibility of Surface-Enhanced Raman Spectroscopy (SERS) for rapid antibiotic susceptibility on a team of 3 members.
- Handled bacteria and antibiotics leveraging various laboratory equipment including a centrifuge, infrared spectrometer, Raman spectrometer, automated pipette.
- Wrote MATLAB script templates enabling seamless transformation of spectrometer data into professional graphs for presentations and publication purposes.

PROJECTS

Room Occupancy Monitor

- Led the design and assembly in a cross-disciplinary team of four to create a room occupancy monitor, preventing unsafe overcapacity situations, particularly in hazardous environments.

RFID Keycard Door Lock

- Assembled a practical RFID door lock system employing a servo motor and a pulley mechanism.
- Integrated keycard access and configured the mechanism with Arduino.