

James Gravlin
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Education

Drexel University
Bachelor of Science in Biomedical Engineering

Philadelphia, PA
Anticipated Graduation June 2023

Relevant Coursework

Calculus and Functions, I, II, III
Human Physiology I, II
Linear Algebra
Molecular Biology I, II
Differential Equations

General Chemistry, I, II
BMES Design, I, II
Fundamentals of Materials
Physics I, II
Biomedical Design I

Organic Chemistry
BMES Programming I, II
Thermodynamics
Statics
Dynamics

Skills

Software: Microsoft Teams, Access, Excel, PowerPoint, Word, OneNote, and Outlook
Programming: MATLAB, Basic AutoCAD, HTML, Basic Python, Basic JavaScript
Laboratory: Micro pipetting, Gel Electrophoresis, Titration, Filtration, Sterilization, Staining, Use of PCR

Research Experience

Drexel University

Design Team 3 in COVID-19 Containment Device

Philadelphia, PA
December 2020 to Present

- Adapted to requirements needed while performing systematic design output at an efficient rate
- Drafted a multitude of different models for potential design builds utilizing software
- Prioritized design requirements by analyzing the multivariate constraints
- Listened, attempted and contributed to ideas from other members of the group

Drexel University

Biomedical Design Team for RUBE machine

Philadelphia, PA
September 2018- January 2019

- Led the group towards solutions by using the design processes and maintaining a positive outlook
- Programmed simulations that show how the effective process will be carried out
- Arranged and organized data and notes into sections to allow easy access to all information

Experience

American Bread Corporation

Associate in Line Development

Marlton, NJ
September 2017 - March 2020

- Identified and consolidated over a 100 different varieties of produced goods
- Communicated with other associates in order to maintain an effective and efficient work environment to boost productivity
- Trained new hires to learn the different techniques to produce foods and the procedures involved in doing so
- Utilized Quality and Control to effectively lead the team in production

Activities

Community Service, Library Assistant, 2014-2020
Drafting Design for electronic games

Honors and Awards

A.J. Drexel Scholarship, Drexel University, 2018-2023
Drexel Grant Recipient, Drexel University, 2018-2023
Legacy Scholarship, Drexel University, 2018-2023
American Mathematics Contest Award Winner