

Aidan Lee

Windsor, CT

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Education

Major: Engineering Physics: MSE (Material Science and Engineering)

Graduation: May 7th, 2023

University of Connecticut

Senior Design and Undergraduate Research

Senior Design Project: ASSA ABLOY Steel Door Carbon Reduction 2022-2023

- Reduction of the carbon footprint of a steel door via the replacement of the polystyrene core through investigation of cork, cellulose, and mycelium
- Tests performed: R-Value, Compression, Acoustic, Water Absorption, Desorption
- R-Value: Measure change in temperatures of material surface to calculate R-Value, Compression: Test compressive strength of material using ADMET, Acoustic: Test sound dampening/absorption capabilities of material using acoustic testing chamber, Water Absorption: Measure gain in mass of materials after being left in container of water for set times
- Result: ASSA ABLOY to use hybrid of cork and cellulose for the core of their doors in the future

Mutation of a protein in Malate Dehydrogenase 2019

- Investigated what would happen if the amino acid, proline was mutated into phenylalanine or alanine

Relevant Courses:

MSE 3002: Transport Phenomena in Materials Processing

MSE 3032: Introduction to High-Temperature Materials

MSE 4038: Alloy Casting Processes

MSE 4003: Materials Characterization

MSE 4004: Thermal/Mechanical Processing of Materials

PHYS 3401: Quantum Mechanics

PHYS 4150: Optics

PHYS 4210: Introduction to Solid State Physics

Skills

Intimate knowledge and experience of LaTeX for document writing

Soldering

Machine and Power Tool Operation

Microsoft Office Suite and Google Drive

Awards and Leadership Positions

Nintendo Club Eboard and Founding Member 2017 - 2018, 2020 - 2023

- Senior Advisor: Guide new members of eboard in their roles to ensure the club continues to run smoothly and effectively
- President: Moderate the club discord server, run club meetings, book a room for meetings, and organize club activities
- Secretary: Made and maintained detailed notes and meeting minutes to allow for a record of the club

Work and Volunteer Experience

Amazon Warehouse Worker (Windsor, CT)

Hartford Food Share

August 2020, June - August 2021

April 2019

Other Extracurriculars

UConn Chamber Orchestra and UConn Taekwondo Club

UConn Taekwondo Club

