

Daniel J. Sitnik

djsitnik@buffalo.edu 315-706-5668

EDUCATION

Bachelor of Science, Mechanical Engineering May 2024

University at Buffalo, The State University of New York

- Honors: GPA: 3.84/4.0

TECHNICAL SKILLS

Computer Skills: Windows OS, Microsoft Excel Certification (Microsoft Office Specialist in Excel)
Programming Languages: MATLAB
Drafting Programs: Solidworks, Inventor AutoDesk

ENGINEERING WORK EXPERIENCE

Mechanical Engineering Intern, DL Manufacturing, Syracuse, NY, December 2021 - January 2022,
June 2022 - August 2022, December 2022 - January 2023, June 2023 - August 2023

Project: Tilt Back MxV Loading Dock Door

- Assembled a prototype MxV Tilt Back Door
- Created assemblies and sub-assemblies on Solidworks of parts for the door
- Conducted meetings in regards to the MxV Tilt Back Door

Project: Super Fan

- Utilized Solidworks to refine the current model (add improvements, eliminate waste and reduce cost)
- Assembled a prototype through Solidworks of the fan
- Ran meetings in regards to the fan and collaboratively brainstormed with coworkers

Project: Door Operator

- Worked to design a direct drive operator to connect to existing loading dock equipment
- Used Solidworks to prototype a design
- Brainstormed and ran multiple meetings regarding the door operator

ENGINEERING PROJECTS

Designing a Turbine to Produce Renewable Energy, Fall 2020

- Proposed a design of 3 curved blades for a turbine made out of chipboard
- Performed tests and simulations where different materials and blade parameters were analyzed
- Received a design award for usage of a simulation software to test the design of the turbine

Group Open Ended Modeling Project for EAS 207 (Statics), Fall 2022

- Lead meetings and designed a pool lift in accordance to material and force specifications
- Using specifications and knowledge of statics, a pool lift was designed to meet these requirements
- Project undertook multiple designs as well as solving forces using MATLAB and by hand

ADDITIONAL WORK HISTORY

Garage Door Technician: DL Manufacturing, Syracuse, NY, June - September (2019 - 2021)

- Trained around 10 plus employees: built basic garage door sub-assemblies and main panels
- Collaborated with employees on multiple projects

Cashier: Target, Syracuse, NY, June - January 2018

- Worked in customer service helping customers find, and purchase goods
- Trained upwards of 10 employees: Customer service and cash register operation
- Mediated confrontational situations

LEADERSHIP EXPERIENCE AND ACTIVITIES

Vice-President: National Honors Society (NHS), September 2019 - June 2020 (High school)

Umpiring: Umpiring local East Syracuse-Minoa Little League Games, June - August (2017 - 2019)