

Breanna Duchatellier

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PROFESSIONAL WORK EXPERIENCE

Junior Mechanical Engineer, Jacobs, DFW, TX June 2023-Current

- Performed detailed load calculations and equipment selection for projects using Trace 700
- Created and Formulated Ductwork and Piping efficiently based on load calculations
- Reviewed client and government issued comments in Bluebeam and reviewed them for future project submissions
- Calculated static pressure for varying HVAC systems and fittings

Engineering Intern, Pyrotek, Sanborn, NY June 2022-Aug 2022

- Gained hands-on experience in heavy industrial manufacturing
- Created AutoCAD drawings based on production needs
- Sourced equipment and made purchasing orders

EDUCATION

University at Buffalo, The State University of New York
Mechanical Engineering - Bachelor of Science

Buffalo, NY
Graduated 2023

Leadership Experience and Co-curricular Involvement

- Vice President (2022-2023); Secretary (2021-2022), Theme Park Engineering Club
- Finance Chair (2022-2023), National Society of Black Engineers (NSBE)
- Active Member (2019-2023); “Rookie of the Year” (2019), UB Dazzlers Dance Team

ENGINEERING PROJECT EXPERIENCE

Project Title: Bus Bar Cover Internship Project, Summer 2022

Objective: Design a cover for bus bars posing a safety concern to workers

- Utilized AutoCAD for engineering drawing of creation
- Sourced materials and presented them to the company purchaser

Project Title: ISU Ride Engineering Competition, Spring 2022

Objective: Produce a ride attraction idea based on design and size constraints

- Worked in the machine shop to manufacture small scale ride
- Produced SolidWorks stress and strain analysis
- Distributed work between a team of 6
- Focused on economic efficiency, safety factors, and formulating a unique configuration

TECHNICAL/INTERPERSONAL SKILLS

Technical Skills: Trane Trace 700, SOLIDWORKS, MATLAB, MS Office (including Excel), Revit, Arduino, AutoCAD, Canva, Titus TEAMS Selection, Ductulator

Interpersonal Skills: Time Management, Teaching

ADDITIONAL WORK HISTORY

- Dallas Stars Ice Girl, Dallas, TX Aug 2023-July 2025
- Cashier, The Home Depot, Amherst, NY Aug 2022-May 2023
- Dance Teacher, Broadway Bound Dance, Garden City, NY Sept 2016-Aug 2021