

Jonathan A Marchineck

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EDUCATION

Vanderbilt University, Nashville, TN

May 2021

Bachelor of Engineering in Mechanical Engineering, Minor in Engineering Management

- Cumulative GPA: 3.86/4.00

Relevant Coursework: Material Strength and Structure, System Failure Design, Machine Analysis and Design, Fluid Mechanics, Mechatronics, Technology Strategy, Applied Behavioral Science

PROFESSIONAL EXPERIENCE

Bala Consulting Engineers, Baltimore, MD

May 2019 – August 2019

Junior Drafting Engineer

- Assisted in developing the design, layouts, and design calculations for eight various commercial building systems using AutoCAD and Revit
- Documented and confirmed mechanical dimensions through site evaluations to visualize design parameters and engineer solutions that accommodate preexisting systems and structures
- Bridged the gap between relevant coursework and commercial engineering to grow as a student and achieve as an active engineer
- Drafted digital drawings, diagrams, and schedules for mechanical system layouts including HVAC, Plumbing, Electrical, and Fire Protection to meet the expectations of the customer and the company standards

Head Resident, Nashville, TN

August 2018 – Present

House Leader and Peer Advisor

- Fostered the development a residential community comprised of eighty first-year male and female students centered around identity, inclusion, and lasting relationships
- Headed the social media accounts to showcase the achievements of house residents and to highlight house events
- Worked 19 hours a week to ensure the care and safety of 400 male and female first year students

Woodfire Kitchen, Hereford, MD

June 2018 – August 2018

Project Team Member and Restaurant Worker

- Collaborated with the management team to visualize, design, and construct new outdoor dining options to accommodate and entertain up to fifty more people in the restaurant
- Conversated with customers about their dining experience to build positive customer relations and to integrate customer feedback into the outdoor seating plan

Johns Hopkins Student Research Team, Baltimore, MD

June 2017 – August 2017

Team Member and Researcher

- Headed a research team focused on designing a practical, impactful, and repeatable muon decay lab that could be implemented in more than 400 advanced high school physics classrooms nationwide
- Created a summary of findings for leading researchers at Johns Hopkins

LEADERSHIP AND SERVICE

Peer Advisor to First-Year Leadership Council, Nashville, TN

May 2018 – Present

Adviser for First-Year Service Chairs

- Served five or more hours a week as a mentor to the first year community leaders providing the resources, experience, and support needed to define the new Vanderbilt class community
- Operated as a liaison between Nashville community service organizations and mentees to ensure first-year service engagement

Vanderbilt Students Volunteering for Science, Nashville, TN

January 2018 – May 2019

Student Teacher and Team Leader

- Prepared and taught four science or engineering lessons a semester in a local Nashville middle school to expand interest in STEM and encourage growing minds

TECHNICAL SKILLS

- Languages: Mathematica, Java, Python, MATLAB
- Proficiency in: AutoCAD, Revit, Creo
- Information Communication: Extensive experience with both Microsoft Office and Google Office