

Jonathan A Marchineck

jonathan.a.marchineck@vanderbilt.edu | (410) 967-2044 | Nashville, TN | www.linkedin.com/in/jon-marchineck

EDUCATION

Vanderbilt University, Nashville, TN

May 2021

Bachelor of Engineering in Mechanical Engineering, Minor in Engineering Management

- Cumulative GPA: 3.80/4.00

Relevant Coursework: Aerospace Propulsion, Energetics, Mechatronics, Modeling and Simulation of Dynamic Systems, Material Analysis Strength and Structure, Mechatronics, Technology Strategy, Applied Behavioral Science

PROFESSIONAL EXPERIENCE

Vanderbilt Aerospace Design Lab - Rocket Team, Nashville, TN

November 2019 – Present

Project Engineer and Treasurer (from May 2020), Field Engineer (prior)

- Selected as one of ten engineers to be a member of Vanderbilt's prestigious and successful (7x NASA Student Launch Initiative champions) aerospace engineering design team and research laboratory
- Designed, machined, and fabricated novel vehicle and payload systems that highlight major challenges in space exploration
- Served the team as Treasurer, Outreach Chair, and Social Media Point

Head Resident, Nashville, TN

August 2018 – Present

Head Resident (from May 2019), Resident Advisor (2018)

- Worked ten or more hours a week to ensure the care and safety of eighty first-year Memorial House residents
- Planned and coordinated more than one meeting a week each for a three-person team of RAs, a ten-person council of first-year house leaders, and all eighty first-year residents of Memorial House
- Fostered the development of a residential community centered around identity, inclusion, and lasting relationships

Crowe, Nashville, TN

June 2020 – July 2020

Manufacturing and Distribution Consulting Intern

- Operated as the production lead on a manufacturing and distribution intern consulting team to address client end-user concerns that surfaced during a mock go-live scenario
- Pitched IOT integration as an add-on client package that complements existing Crowe ERP solutions

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 by drafting digital drawings, diagrams, and schedules for mechanical system layouts in AutoCAD and Revit
- Documented and confirmed mechanical dimensions through site evaluations to visualize design parameters and engineer solutions that accommodate preexisting systems and structures

LEADERSHIP AND SERVICE

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

May 2018 – May 2020

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 assist 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

SKILLS

Programming:	MATLAB, Mathematica, Lab View, Java, Python
CAD Development:	Onshape, AutoCAD, Revit, Creo
Fabrication and Prototyping:	Machining, Laser/Waterjet Cutting, 3D Printing, Arduino
Social Media:	Instagram (Head Resident and VADL) and Twitter (Head Resident and VADL)
Communication:	Extensive experience with both Microsoft Office and Google Office