JONATHAN RILEY



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EDUCATION

Duke University Expected Graduation: May 2022

Durham, NC

- Major: Bachelor of Science in Mechanical Engineering Certificate: Innovation and Entrepreneurship
- **GPA:** 3.29/4.00
- Scholarship: Barbara Caldwell Scientific Excellence Scholarship

EXPERIENCE

Ford Motor Company

May 2021 - July 2021

Feature Management Team (Remote), Dearborn, MA

- Developed a conceptual analysis of the Zone Lighting Feature to connect with the logical basis and implementation of the feature to create a basis for feature improvement in the future.
- Analyzed customer usage data to validate existing use cases and brainstorm additional feature functionalities to address customer needs.
- Benchmarked feature hardware components and software connections to uncover potential cost savings and determine any advantages observed by our competitors

Edwards Lifesciences

June 2020 - August 2020

Strategy and Execution Team (Remote), Irvine, CA

- Created four unique views used for standardizing transfer project processes in-between corporate locations across multiple continents.
- Developed high level visuals for all transfer projects managed within the Global Supply Chain network which was utilized to increase project visibility and resource management for 70+ projects in the 2020 and 2021 fiscal year.
- Assisted team in the development of a standard business case process to assess current and future transfer projects to align
 with key strategic business initiatives and project prioritization.
- Trained and developed projects in Clarizen (PM System), worked with Clarizen IT team to implement key milestones and business attributes to create automated reporting for transfer projects.

Independent Study - Hydroponic System Design

August 2020 - Current

Duke University (Remote), Anchorage, AK

I am developing a hydroponic system that will allow for small herbs/leafy greens to be grown autonomously

- Improving technical skills by developing low-cost prototypes using Arduino Circuits, CAD Design, and Solar Cells
- Evaluated and analyzed existing products in market to identify key problems which I plan to address with my design
- Worked through project using the design process, emphasizing full understanding of the problem before developing solutions.

Independent Study - Piezoelectric Tile Design

January 2021 - Current

Duke University, Durham, NC

We are designing a compressive tile that converts kinetic energy into electric energy that can be stored for future use

- Developed low fidelity prototypes using Arduino circuits, electric coils, and CAD Design using the design process
- · Benchmarked existing piezoelectric tiles to observe competitive advantages within their design

Research Assistant (Aeroelasticity Group) LASCADE and Airfoil Rig Projects, Durham, NC

September 2019 - May 2020

- Designed the component blade support that allows for the oscillation of the middle blade in a seven-blade compressor linear cascade in Solidworks, while also being sturdy enough to remain functional after continuous testing.
- Assisted in development of other project systems including the blade excitation system and the pressure transducer measurement and calibration

LEADERSHIP AND INVOLVEMENT

National Society of Black Engineers

September 2018 - Present

Vice President, Durham, NC

- Created directives for the 2021-2022 Academic Year alongside my president for our chapter and our executive board
- Assisted management of event programming involving company sponsored meetings, community service events, and monthly general body meetings for over 25 active members

Former Executive Roles: Programs Chair (2020-2021), Finance Chair (2019-2020)

Black Men's Union

September 2018 - Present

Treasurer, Durham, NC

 Managed financial transactions for all events held during the year including organized group events, biweekly meetings (Brother's Breaking Bread), study sessions, and themed dinners
 Former Executive Roles: Programming Co-Chair (2020-2021), Communications Chair (2019-2020)

Eagle Scout Bronze Palm

June 2017 - Present

RELEVANT COURSEWORK

• Engineering 344: Control Systems Math 353: Ordinary and Partial Differential Equations I&E 352: Strategies for Innovation and Entrepreneurship

SKILLS AND INTERESTS

- Training, Language and Computer Programming: Python, Excel, Solidworks, Edwards Mitral Academy, French
- Interests: Product Design, Men's Club Soccer, Snowboarding, Classical Violin