

JONATHAN RILEY

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EDUCATION

Duke University
Durham, NC

Expected Graduation: May 2022

- **Major:** Bachelor of Science in Mechanical Engineering **Certificate:** Innovation and Entrepreneurship
- **GPA:** 3.12/4.00
- **Scholarship:** Barbara Caldwell Scientific Excellence Scholarship

EXPERIENCE

Edwards Lifesciences

June 2020 – August 2020

Strategy and Execution Team, 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.
- Gained leadership training through the form of DiSC seminars and group discussions with C-Suite members.

Research Assistant (Aeroelasticity Group)

September 2019 – May 2020

LASCAD Project, Durham, NC

Our team is focused on investigating flutter occurrence of a central blade on its two neighboring blades within a seven-blade compressor linear cascade

- 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.

Airfoil Rig Project, Durham, NC

- Assisted in development of other project systems including the blade excitation system and the pressure transducer measurement and calibration

Independent Study – Hydroponic System Design

August 2020 – Current

Duke University (Remote), Anchorage, AK

I am looking to develop 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, which emphasizes full understanding of the problem before developing solutions.

LEADERSHIP AND INVOLVEMENT

National Society of Black Engineers

September 2018 – Present

Programs Co-Chair, Durham, NC

- Developed a programming schedule for the 2020-2021 Academic Year involving company sponsored meetings, community service events, and monthly general body meetings for over 25 active members
 - Served as one of the main points of contact for financial contributions from corporations and parents
- Former Executive Roles: Finance Chair (2019-2020)*

Black Men's Union

September 2018 – Present

Programming Co-Chair, Durham, NC

- Organized group events, biweekly meetings (Brother's Breaking Bread), study sessions, and themed dinners to foster brotherhood within the black male community for over 35 active members
- Former Executive Roles: Communications Chair (2019-2020)*

Eagle Scout Bronze Palm

June 2017 – Present

Troop 55, Houston, TX

- Managed three separate conservation projects at the Don Greene Nature Park by covering all aspects of project planning to project execution. This work was recognized by the Harris County Parks Department and the Friends of Don Greene Organization as being environmentally beneficial.

Project Edge Pre-Orientation Program

February – August 2019

Staff, Durham, NC

- Planned programming for first year students focused on entrepreneurship, innovation, and practical design

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