

# DYLAN BRYANT

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## EDUCATION

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**The University of Tennessee, Knoxville,** Tickle College of Engineering  
*Bachelor of Science in Mechanical Engineering*  
Major: *Mechanical Engineering*    Minor: *Aerospace Engineering*  
Knoxville, Tennessee  
Graduation: May 2023

**The University of Tennessee, Knoxville,** Tickle College of Engineering  
*Master of Science in Mechanical Engineering*  
Major: *Mechanical Engineering*    Concentration: *Advanced Manufacturing*  
Knoxville, Tennessee  
Graduation: December 2024

## PROFESSIONAL EXPERIENCE

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**Fiber and Composites Manufacturing Facility**  
*Graduate Research Assistant*  
Research Area: *Materials Maturation for High Mach Systems*  
Knoxville, Tennessee  
August 2023 – Present

- Research focused on developing a stable manufacturing and characterization methods for low-cost carbon fiber in carbon/carbon composite materials
- Handled Controlled Unclassified Information in accordance with federal regulations
- Organized and led a team of 3-5 undergraduate students performing laboratory testing
- Supported 3-4 laboratory tours and community outreach events per month

**Keurig Dr. Pepper**  
*Engineering Intern*  
Knoxville, Tennessee  
May 2023 – December 2023

- Used RCFA and DMAIC processes to identify and resolve production line performance issues
- Engineered easily deployable resolutions to safety issues in collaboration with EHSS team
- Designed and modeled production line fixes using SOLIDWORKS
- Drafted detail drawings for new and revised models to facilitate machine shop interaction
- Digitally replicated and 3D printed components for temporary machine fixes

**Pactiv Evergreen**  
*Engineering Intern*  
Canton, North Carolina  
May 2022 – August 2022

- Revised drive maps for paper & board machines and roll finishing areas
- Created catalog of RPM, HP, and coupling model numbers for approximately 600 electric motors
- Modeled and installed components for conveyor systems using AutoCAD
- Performed on-site troubleshooting and emergency repairs on critical machines with maintenance team

## LEADERSHIP

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**Blount Country Robotics, FIRST Robotics Team 4504**  
*Mentor*  
Maryville, Tennessee  
December 2021 – Present

- Instructed and monitored team of approximately 30 middle to high school students
- Implemented and enforced the use of project management techniques
- Evaluate technical designs pitched by students before implementation
- Participated in conflict resolution between students with lead mentor

## RELEVANT PROJECTS

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**AIAA Design Build Fly Team, The University of Tennessee, Knoxville**  
*Structures and Manufacturing Team Lead*  
Knoxville, Tennessee  
August 2022 – May 2023

*Awarded "Best Aerospace Engineering Senior Design Project"*

- Led weekly team meetings with chief engineer and faculty advisor

- Designed models and assemblies in SOLIDWORKS during conceptual design phase
- Researched and implemented composite construction techniques using carbon and glass fiber weaves
- Edited and sliced models to create structural components using 3D printing
- Developed MATLAB code to optimize aircraft weight, power, dimensions, and carrying capacity to increase scoring potential
- Optimized component manufacturability, cost, and assembly complexity to meet project requirements
- Ensured prompt submission of well-formatted deliverables prior to set deadlines

## **SKILLS**

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Practical experience in SOLIDWORKS, MATLAB, composite manufacturing, additive manufacturing, tool design, and Microsoft Office suite

Rudimentary knowledge of AutoCAD, Fusion 360, machining, and polymer chemistry

## **RELEVANT TRAINING**

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OSHA 10-Hour Certification	April 2018
SKF Bearing Basics and Installation Training	June 2022
Root Cause Failure Analysis Training	July 2022
Introduction to Change Management	August 2022
Introduction to Export Compliance (EAR/ITAR)	August 2023
Export Compliance When Using Technology in Research	August 2023