Bennett R. Cox

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Education

Northwestern University **Evanston, IL**
B.S. in Manufacturing and Design Engineering, minor in Business Institutions Expected 2024
- **GPA:** 3.2 / 4.0
- **Relevant Coursework:** Product design, technical writing, prototyping

Logan-Rogersville High School **Rogersville, MO**
Graduated summa cum laude 2016 – 2020
- **GPA:** 4.0 / 4.0; ACT: 35
- **Honors:** Missouri Top 100 Scholars, Missouri Scholars Academy

Relevant Experience

Northwestern Formula Racing **Evanston, IL**
Integration and Dynamics Lead 2020 – Present
- Lead analysis of performance/dynamics, design directive, and systems integration
- Responsible for electric powertrain modeling and control system development
- Tuned a high-performance IC engine for max power and efficiency, increasing acceleration by 15%
- Created vehicle components using CAD, additive manufacturing, water jetting, and machining.

Driver
- Entrusted to perform at competition and provide valuable feedback on vehicle dynamics

BBB Industries **Joplin, MO**
Engineering Intern 2023
- Designed tooling, fixturing and automation components to enable a new product rollout
- Utilized additive manufacturing to reduce tooling costs by up to 90%
- Reduced component material usage by up to 50% through FEA and topology optimization

CNH Industrial Reman **Springfield, MO**
Engineering Intern 2022
- Analyzed production data to increase efficiency, achieving $36k in yearly savings
- Gained valuable experience in powertrain manufacturing and testing

Additional Experience

Student Affairs Marketing **Evanston, IL**
Design and Photography 2020 – Present
- Ensure client satisfaction while guiding large advertising projects from ideation to completion through efficient project management, effective communication, and timely delivery

Design Projects
- Designed a prototype of an interactive model to aid doctors with patient education
- Collaborated with peers to document and communicate the design of a protective insert for hats

Skills, Activities, & Interests

Technical Skills: Solidworks, NX, nTop, Python, Mill/Lathe, MATLAB/Simulink, Dyno Tuning