

Daniel B. Jackson

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OBJECTIVE: Seeking a Mechanical Engineering internship or part-time employment

The University of Kentucky, Lexington, KY (Fall 2021 - Spring 2025)

- Bachelor's Degree in Mechanical Engineering

Elizabethtown Community and Technical College, Elizabethtown, KY (Fall 2018 - Spring 2020)

- Associates of Science (Junior & Senior year of Highschool)

RELEVANT SKILLS & PROJECTS:

Member, Formula Kentucky, Formula SAE (Fall 2022 - Present)

- Member of the Suspension team responsible for developing; uprights, spindles, rockers, spherical housings, Control arms, etc...
- Responsible for Rocker design using FEA and optimizing for weight-optimization
- Experience in collaborating with other subsystems and integrating parts across teams while meeting design freeze deadlines

Self-irrigating Hydroponic System, Independent "At-home" project (Summer 2023 – Present)

- Designed and iterated a fully autonomous self-irrigating solar-powered plant watering system using Arduino-Uno and C++
- Used Solidworks and Personal 3d Printer to create all parts for servos, moisture sensors, and water pumps

Member, Engineering Club (WKU), American Society of Mechanical Engineers Club (ASME (Fall 2021)

- Prototyped tennis ball launcher using **SolidWorks** by creating detailed 2D drawings and 3D assemblies using standard GD&T methods
- Tested and resolved spring rates, material selection, and feeder system issues, reducing weight by 29% from the original design
- Documented all parts purchased and cost of materials into our **BOM**.

EMPLOYMENT EXPERIENCES:

Carrier Process Equipment Group | Louisville, KY (Summer 2023)

Engineering Lab Tech Co-op

- Helped assemble and conduct over 20 tests of cutting-edge machinery, collaborating closely with Project Engineers to ensure precision and optimal performance.
- Articulated communication with potential clients during testing sessions, showcasing a professional and client-oriented approach
- Maintained proficiency in handling a diverse range of processing equipment, including Calciners, Rotary Dryers, Vertical Vibratory Elevators, Thermal Screws, and more

Kroger | Lexington, KY (Winter 2020 - Present)

Clicklist Attendee

- Able to efficiently navigate the store during peak hours of operation while still completing each task as optimally as possible
- Able to analyze quickly and solve customer questions on the fly while completing tasks

American Legion Water Park | Elizabethtown, KY (Summer '21 - '23)

Head Lifeguard

- Performed over 20 lifesaving rescues over three summers, ranging from fully submerged adults to shallow water rescues of toddlers
- Provided utmost customer service while maintaining control over 500+ patrons a shift and enforcing policies and rules

SKILLS: Solidworks, Creo Parametric, Excel, PowerPoint, Python, Finite Element Analysis, 2D technical drawing