

# Jason Williams

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## EDUCATION

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### University of Florida

Orlando, FL

*Master of Science in Architectural Studies (MSAS), Themed Environments Integration* August 2023 - December 2024

- GPA: 4.0/4.0

### University of Michigan

Ann Arbor, MI

*Bachelor of Science in Engineering (BSE), Mechanical Engineering, Minor in Music* August 2019 - April 2023

- GPA: 3.66/4.0

## PROFESSIONAL EXPERIENCE

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### Universal Destinations and Experiences

Orlando, FL

*Industrial Engineering Co-op, Environmental Sustainability* August 2023 - December 2024

- Conducted engineering, statistical, and economic analyses for sustainability initiatives, reducing carbon footprint, process inefficiencies, and operational costs.
- Managed a water conservation project to completion, identifying excess water consumption through document research and in-field studies, leading to significant cost and environmental impact reductions.
- Collaborated with cross-functional teams to implement sustainable practices across international parks, focusing on lifecycle assessment, environmental impact, and resource efficiency.
- Presented sustainability reports to executives, emphasizing data-driven outcomes and future projections to drive strategic environmental goals.

### University of Michigan - Resourceful Manufacturing & Design Lab

Ann Arbor, MI

*Research Intern* May 2022 - January 2023

- Developed cost, time, and energy models for wind turbine blade production, showcasing the benefits of modular and additive manufacturing.
- Demonstrated a 30% cost reduction and 50% time-to-market improvement for blade molds, presented in monthly reports to the U.S. Department of Energy.
- Integrated lifecycle analysis to reduce environmental impact and align with sustainable production methods.

## LEADERSHIP EXPERIENCE

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### Theme Park Engineering Group

Ann Arbor, MI

*Executive Board* January 2022 - April 2023

- Led creative development and project management for a multidisciplinary team of 7 students during the TMU Thrill Design Competition, which hosted nineteen collegiate teams nationwide.
- Recognized by Universal Creative jurors for outstanding technical and creative skills, demonstrating innovation and collaboration in themed environment design.
- Conceptualized and built an original escape room for University of Michigan students, designing immersive puzzles and theming in collaboration with group members.

## PROJECT EXPERIENCE

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### Animatronic Lemur Tail Interactive

- Designed and constructed an animatronic lemur tail, utilizing custom 3D printed parts and off-the-shelf components to achieve a realistic and lifelike motion.
- Engineered a flexible central shaft, discs, cable actuation, and multiple segments to mimic natural tail movements.
- Compiled a comprehensive final report with technical approach, bill of materials, and assembly documentation.

### Mechatronics Design and Manufacturing

- Developed a four-bar linkage mechanism using Arduino for precise color-coded disc placement.
- Optimized controls with peers, resulting in one of the quickest and most efficient mechanisms in the class.

## SKILLS

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Data Analytics, Power BI, Lifecycle Assessment, Arduino, Microsoft Office, MATLAB, SolidWorks, C++