

# Paris Davenport

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## SUMMARY

Dedicated mechanical engineer with practical CAD design skills and a passion for innovative robotics. Strong background in 3D modeling with Solidworks, supported by hands-on project experience. Successfully collaborated on multi-disciplinary teams to deliver functional prototypes aligning with manufacturing standards. Demonstrated ability to adapt to challenges while maintaining clarity in engineering documentation and designs. Eager to contribute to impactful developments at Tinker Robotics. Exploring opportunities to optimize design processes for better product outcomes and enhance team workflows. Committed to staying abreast of emerging technologies in the field.

## EDUCATION

### Bachelor's Degree in Mechanical Engineering

2026

Springfield University GPA: 3.8

Springfield, IL

*Coursework: Design Principles, Mechanics, Thermodynamics, CAD Modeling*

## TECHNICAL SKILLS

- **CAD Software:** Solidworks, AutoCAD, Fusion360
- **Prototyping Techniques:** Rapid Prototyping, Iterative Design, Material Selection
- **Manufacturing Processes:** CNC Machining, Laser Cutting, 3D Printing
- **Project Management Tools:** Trello, Asana, Microsoft Project
- **Electrical Components:** Sensors, Motors, Wiring Systems
- **Team Collaboration Tools:** Slack, Microsoft Teams, Zoom
- **Testing Protocols:** Performance Evaluation, Data Collection, Document Review
- **Documentation Standards:** Engineering Drawings, Specifications, Process Flowcharts
- **Analytical Skills:** Tolerance Analysis, Critical Thinking, Problem Solving
- **Design Methodologies:** Design for Manufacturing, Design for Assembly, Modular Design

## SKILLS

- Fusion360
- Prototyping
- Assembly Processes
- Sheet Metal Fabrication
- Solidworks
- Engineering Drawings
- Tolerance Analysis
- Robotic Integration
- AutoCAD
- Material Selection
- CNC Machining
- Wiring Systems
- 3D Modeling
- Design for Manufacturing
- Laser Cutting

## EXPERIENCE

### Mechanical Engineering Intern

January 2025 - Present

University Project

Remote

Currently supporting a multifaceted team as a Mechanical Engineering Intern focusing on CAD design for robotic applications. This role highlights proficiency in prototyping and collaborative problem-solving with a dedication to thorough documentation.

- Developed 3D models using Solidworks for a robotic arm project, focusing on prototyping and design optimization.
- Collaborated with a team to integrate sensors and motors, enhancing functionality and performance of the prototype.
- Conducted material selection analysis to ensure manufacturability and cost-effectiveness of components.
- Created detailed engineering drawings and documentation for production processes, ensuring clarity and accuracy.
- Led the rapid prototyping of new designs, iterating based on feedback and testing results.
- Presented project outcomes and methodologies to faculty, demonstrating effective communication skills.

### Robotics Research Assistant

September 2024 - December 2024

Academic Research

Remote

As a Research Assistant, contributed to a team-oriented environment driving the development of mobile robotic systems. Focused on electrical integration and CAD entries to refine operational efficiency during research activities.

- Assisted in the design and assembly of a mobile robotic platform for research purposes.
- Utilized CAD software to create assembly drawings and schematics for mechanical components.
- Engaged in troubleshooting electrical wiring and component integration, ensuring operational efficiency.
- Participated in testing phases, collecting data to evaluate performance and identify improvement areas.
- Documented research findings and contributed to publications, enhancing academic writing skills.
- Collaborated with faculty and peers to refine design approaches and project direction.

## Senior Design Team Member

August 2025 - May 2026

### Capstone Project

Springfield, IL

Led initiatives in senior capstone design project showcasing project management and teamwork. Focused on the development process from concept to completion for an innovative robotic vehicle design.

- Led a team in the design and fabrication of a robotic vehicle for autonomous navigation.
- Implemented design for manufacturing principles to streamline assembly processes, reducing overall project time.
- Analyzed tolerance and fit of mechanical parts, ensuring seamless assembly and functionality.
- Developed a comprehensive project portfolio, showcasing design iterations and project challenges.
- Engaged in regular presentations to stakeholders, effectively communicating project progress and results.
- Successfully completed the project ahead of schedule, receiving commendations for teamwork and innovation.

## PORTFOLIO

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**Title:** Portfolio of Design Projects

**Link:** <https://portfolio-example.com>

**Description:** A collection including CAD designs, prototypes, and finished products featuring design process.

## LEADERSHIP & AWARDS

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- Dean's List, Springfield University, 2024-2026
- First Place, University Robotics Competition, 2025

## CERTIFICATIONS

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- Certified Solidworks Associate (CSWA) 📅 2025
- AutoCAD Certified User 📅 2025

## PROFESSIONAL AFFILIATIONS

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- President, Robotics Club, Springfield University, 2025-2026
- Volunteer, STEM Outreach Program, 2025-2026

## LANGUAGES

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- English (Native) • Spanish (Intermediate)

## ADDITIONAL INFORMATION

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**Work Status** : Authorized to work in United States. No sponsorship required.

## REFERENCES

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AVAILABLE ON REQUEST