

# Julian Frazier

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## SUMMARY

Enthusiastic Mechanical Engineer with a Bachelor's Degree in Mechanical Engineering and experience in product design. SolidWorks expertise resulted in successful development of fitness equipment components in academic projects. Collaborating effectively with diverse teams enhanced project execution across various engineering stages, from design through testing. Dedicated to continuous learning and improvement, demonstrating strong problem-solving skills while addressing design challenges. Adaptable with a foundational knowledge of both plastic and metal part designs, lending insight into production processes and materials selection. Eager to contribute fresh ideas and energy to Life Fitness Innovations.

## EDUCATION

### Bachelor's Degree in Mechanical Engineering

University of Minnesota GPA: 3.8

2026

Minneapolis, MN

*Coursework: Machine Design, CAD Systems, Thermodynamics, Materials Science*

## TECHNICAL SKILLS

- **CAD Software:** SolidWorks, AutoCAD, CATIA
- **Engineering Analysis Tools:** ANSYS, MATLAB, COMSOL
- **Prototyping Techniques:** 3D Printing, CNC Machining, Laser Cutting
- **Documentation Standards:** ASME Y14.5, ISO 9001, Six Sigma
- **Project Management Tools:** Trello, Asana, Microsoft Project
- **Testing Equipment:** Force Gauges, Hydraulics Testers, Multimeters
- **Fabrication Techniques:** Injection Molding, Sheet Metal Fabrication, Welding
- **Material Sciences:** Plastic Polymers, Composite Materials, Metals
- **Design Methodologies:** DFM, DFSS, FMEA
- **Data Analysis Tools:** Excel, MATLAB, Minitab

## SKILLS

- SolidWorks
- 3D CAD Design
- Engineering Documentation
- GD&T
- Collaboration
- Problem Solving
- Prototyping
- Testing
- Machine Design
- Materials Selection
- Design Validation
- Manufacturing Processes
- Packaging Design
- Drafting Standards
- Customer Focus
- Time Management

## EXPERIENCE

### Mechanical Engineering Student

University Project

September 2024 - June 2026

Minneapolis, MN

Focused on practical application of engineering principles with hands-on work in a collaborative environment. Engineered prototypes that enhanced understanding of manufacturing and design validation.

- Completed prototype of fitness equipment using SolidWorks, meeting functionality criteria for tests.
- Developed detailed engineering documentation and 3D models streamlining manufacturing processes.
- Collaborated in validation testing, enhancing design based on peer feedback and data analysis.
- Defined project timelines to ensure goals were consistently met throughout the duration.
- Initiated iterative design improvements following thorough testing, contributing to upgraded functionality.
- Presented key findings to faculty, highlighting technical proficiency and project success.

### Research Assistant

Academic Research

September 2023 - June 2024

Minneapolis, MN

Contributed to research geared towards consumer products, gaining exposure in CAD methodologies and engineering analysis. Helped document insights that informed design processes.

- Supported research initiatives involving CAD design approaches focused on student-developed methodologies.
- Created and modified 3D models via SolidWorks to align with research guidelines.
- Documented findings to assist in developing a comprehensive analytical report.
- Engaged in discussions for project direction, leading to refined strategies.

- Gained practical insights into engineering analysis methods, including key FEA applications.
- Actively participated in resolving technical hurdles encountered during project evolution.

## LEADERSHIP & AWARDS

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- Dean's List, 2024 - 2026
- Best Project Award, University Engineering Expo, 2025

## CERTIFICATIONS

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- SolidWorks Certification 📅 2025
- Engineering Principles Certificate 📅 2025

## PROFESSIONAL AFFILIATIONS

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- Member, Mechanical Engineering Society, 2024 - Present
- Participant, Annual Engineering Hackathon, 2025

## 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