

Jackson Ranucci

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PROFESSIONAL SUMMARY

I'm a junior Mechanical Engineering student at Rice University, balancing NCAA Division I football with a genuine drive to understand systems and make them work better. I build AI-assisted tools that solve real problems, including a predictive equipment health monitoring system and a browser-based 3D medical imaging viewer built to help patients understand their own scans. I'm seeking a summer 2027 engineering internship where I can bring a hardworking, team-first mindset to real-world reliability, efficiency, and systems-optimization challenges, particularly in energy, industrial operations, or applied AI.

EDUCATION

B.S. Mechanical Engineering, GPA: 3.64

Expected May 2028

Rice University

Houston, TX

- NCAA Division I Student-Athlete: Wide Receiver/Special Teams, Rice Football (~20 hrs/week in-season); AAC All-Academic Team, 2025 and 2026

WORK EXPERIENCE

Youth Flag Football Head Coach

Summer 2026

Next Level Sports

Houston, TX

- Led weekly practices, drills, and game strategy for a youth flag football team of mixed skill levels

Investor Relations Observer

June 24-25, 2026

Stephens Investment Management Group Inc.

- Sat in on investor relations meetings between company management (Magnolia Oil & Gas, TechnipFMC) and a portfolio manager, observing how analysts evaluate capital allocation, production guidance, and commodity price exposure

Summer Camp Counselor

2021 – 2023

West University Methodist Church

Houston, TX

- Supervised children through daily activities over three summers, coordinating with parents and staff

PROJECTS

ScanSpace | Browser-Based 3D Medical Imaging Viewer

2025 – Present

- Built a browser-based tool that converts patient DICOM scan files (MRI/CT) into interactive, sectionable 3D models rendered entirely on-device, letting patients explore their own imaging directly
- Designed, built, and validated it independently using AI-assisted development (Claude Code); tested against my own MRI data

RS-1 | Predictive Equipment Health Monitoring System

2025 – Present

- Designed a monitoring system for mechanical equipment (HVAC, rotating equipment) that establishes operating baselines, tracks trends, and flags likely failures before they occur, cutting unplanned downtime
- Added a confidence-scoring layer so the system alerts only when warranted and reports its certainty in each prediction; built with Supabase and Vite, validated against simulated equipment data

Personal Engineering Portfolio | [ranuccisystems.com](#)

2025 – Present

- Documents independent engineering and software projects; expanding with an invoice-reconciliation tool and a personalized film-review coaching tool

TECHNICAL SKILLS

Strengths | Adaptability, Growth Mindset, Problem Solving, Accountability, Composure, Discipline, Consistency, Focus, Collaboration, Hardworking, Perseverance, Courage

Software & AI | Claude Code and agentic coding workflows, Supabase, Vite, Visual Studio Code, ChatGPT, MS Office

Engineering Tools | SolidWorks, MATLAB