Jacob Samaras

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EDUCATION:

Embry-Riddle Aeronautical University – Daytona Beach, FL
B.S. Aerospace Engineering, Concentration: Aircraft Design · Class of 2030

EXPERIENCE:

Engineering Intern
CASBE Industries · Precision Tube Fabrication & Assembly for Aerospace, Defense & Medical · June 2025 – August 2025

- Selected by engineering teacher as one of four students for a paid summer internship
- Developed a robotic arm table and mount concept in SolidWorks, evaluating footprint, reach, stability, and modular construction
- Worked alongside tube bending, coiling, laser engraving, robotic arm operation, and precision cleaning and packing
- Observed CNC demonstrations in an active aerospace and defense manufacturing environment

PROJECTS:

ERAU Waypoint – Campus Navigation PWA (Product Direction)
Embry-Riddle Aeronautical University · August 2026 – Present · 24 iterations · AI-assisted development

- Directed product vision and requirements for an AI-coded Progressive Web App for navigating ERAU Daytona Beach campus
- Personally surveyed building entrances, field-tested on iPhone, and drove 24 rounds of revision
- Defined GPS/magnetometer heading behavior, class schedule integration, and offline-capable install flow
- Planning to rebuild independently as a full coding project as engineering coursework progresses

Game Project Manager, Owner and Developer – Go Mining
Roblox · May 2022 – Present · 1.5M+ visits (game total), 2,795-member Discord community

- Progressed from moderator → trial developer → developer → owner over 2+ years on a live RNG/incremental mining game
- Led ore design, ability VFX, event atmospheres, and map effects; created Wintyrhearth as the headlining fir the winter update
- Coordinated developers and assets, assembled update logs, worked on complicated VFX, implemented new systems, and managed the project

Backrooms Level Map – AI-Directed Graph Mapper
Independent Project · June 2025 – March 2026

- Directed development of an interactive graph mapper for Backrooms Redacted levels as connected nodes with exits, notes, hazards, and routes
- Shaped product requirements, visual style, and navigation UX through an iterative AI-assisted development loop

SKILLS & TOOLS:

CAD / Engineering: Fusion 360, SolidWorks, aerospace manufacturing exposure, aircraft design principles
Programming: Luau (Roblox Studio), Python, MATLAB

Other: Progressive Web Apps, GPS/sensor integration, AI-directed development, visual effects, product iteration

ACTIVITIES & ORGANIZATIONS:

Icarus Sounding Rocket Club · ERAU Daytona Beach · August 2026 – Present

- Currently being mentored on the de-spin system, a centrifugal mechanism that deploys weighted arms to reduce rocket spin rate at apogee

Hypersonics Club · ERAU Daytona Beach · August 2026 – Present