Sam Strear

PROFESSIONAL SUMMARY

Innovative engineer and product designer combining AI automation with hands-on prototyping and CAD development. Experienced in leading projects & teams from concept through manufacturing to enhance efficiency, usability, and performance across physical and digital systems.

CORE SKILLS

AI & Automation: Workflow Engineering • API Integration • Prompt Optimization • Python Scripting • GitHub

Design & Prototyping: CAD • Manufacturing Processes • Mechanical Systems • Rapid Prototyping

Web & Digital: Adobe Creative Suite • Digital Prototyping • Brand Identity Design

PROFESSIONAL EXPERIENCE

Design Engineer, Quantum Performance Partners │ Denver, CO   *Aug. 2025 – Present*

- Engineer AI workflows in n8n and Python to automate reporting & client intake, cutting manual work 40%.
- Collaborate across teams to map operations & build scalable data systems supporting digital transformation.
- Lead QPP's website redesign using user-centered design and analytics to improve engagement and usability.

Founder, Unstable Designs LLC │ Boulder, CO   *Dec. 2023 – Present*

- Direct R&D of outdoor, home, and wellness products using AI-assisted prototyping and CAD development.
- Create & integrate AI workflows linking product data, feedback, and marketing for faster, user-driven iteration.
- Oversee full lifecycles from material research to web launch, uniting fabrication and digital automation.

Technician, House of Motorrad │ Boulder, CO   *Dec. 2023 – Aug. 2024*

- Performed diagnostics and repairs on 10–20 motorcycles weekly within a five-technician team.
- Advanced mechanical skills through 500+ hours of training and mentorship in powertrain systems.
- Initiated pop-up events and partnerships that boosted clientele 20 % and expanded brand reach.

Manufacturing Engineering Intern, TA Aerospace │ Valencia, CA   *May 2023 – Aug. 2023*

- Analyzed production data to justify $500K + capital expenditures and increase line throughput.
- Designed a multi-tier material rack boosting sheet-handling efficiency 200% and reducing floor space.
- Supervised elastomer operations of 100 + staff members, resolving automation issues to cut downtime.

EDUCATION

University of Colorado Boulder │ Boulder, CO   GPA: 3.5 │ School of Engineering and Applied Science

Bachelor of Science in Creative Technology and Design

Interests & Passions: Climbing • Skiing • Aviation • Watchmaking • Outdoor Exploration