

JOSHUA KALMAR

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SUMMARY

My interest in engineering started with a simple question, not how to build something, but why it's built that way, first sparked by guitar pedal circuits and carried through sculpture, blacksmithing, film production, and running a studio business. Across all of it, I kept finding that the most effective systems come from clear intent and as few moving pieces as possible. I'm now pursuing Mechanical Engineering at CSU Chico to build the technical foundation behind that instinct, and I'm looking for an internship to start learning which corner of engineering, design, systems, hands-on development, is the right long-term fit.

EDUCATION

California State University, Chico

B.S., Mechanical Engineering

Expected May 2029

California College of the Arts

B.F.A., Sculpture

2014

TECHNICAL SKILLS

Design & CAD: 3D CAD modeling, 3D printing (FDM, Bambu Lab), design for manufacturability, tolerancing & fit

Fabrication: Metalworking, welding, woodworking, blacksmithing, hand & power tools, machine shop equipment

Electronics: Arduino/embedded systems, circuit design & soldering, sensor integration, basic PID control

Programming: C/C++ (Arduino), Python basics, HTML/CSS

Other: Google Project Management Certificate, precision QA/QC (FADGI standards), inventory management

EXPERIENCE

Multimedia Specialist II, Iron Mountain

Jun 2025 – Jun 2026

- Conducted rigorous quality control on digitized archival documents to FADGI (Federal Agencies Digital Guidelines Initiative) standards, ensuring image fidelity and metadata accuracy.
- Operated high-speed scanning and digital capture equipment; handled confidential materials under HIPAA/GDPR compliance frameworks.

Studio Manager & Operations Specialist, Historic Hudson Studios

Jul 2021 – May 2025

- Led operations for 100+ studio rentals and events; managed facility renovation projects, improving task completion rate by 32% and cutting turnaround time by 10%.
- Built and launched an online booking platform, increasing operational efficiency by 30%.

Equipment Assistant, Accenture Song

May 2024 – Jul 2025

- Managed set preparation and equipment testing to corporate production standards; coordinated across creative and corporate teams to meet tight deadlines.

Fabrication Apprentice, Burwell Arts

Jul 2010 – Jul 2013

- Trained in metalworking, woodworking, and blacksmithing; fabricated custom installations, reducing equipment downtime by 40% and costs by 25%.

Prop Master, JCK Arts

Jan 2014 – Sep 2018

- Designed and fabricated custom props and set pieces for film productions under strict production deadlines.

PROJECTS

Arduino Radar & Motorized Gimbal Systems, Personal Project

- Designed and built two independent Arduino-based systems, a rotating radar-style detection unit and a multi-axis motorized camera gimbal, including sensor integration, motor control, and custom CAD-modeled hardware.

CAD-to-3D-Print Prototyping & Circuit Fabrication, Personal Project

- Designed and iterated functional parts and enclosures in CAD through 3D printing; separately designed, soldered, and fabricated custom guitar effects pedal circuits, testing and debugging at the circuit level.