

Patrick Poss,

Creative builder at the intersection of code, design, & emerging tech.

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Experience

INDEPENDENT • Design & Engineering Services (Jun. '22 - Current)

EARTH CONSTRUCTION & MINING • Building AI systems for the earthwork industry

- Built corporate website and Daily Job Report PWA with AI assistant for report generation and project data queries, deployed on \$40M+ projects
- Developed an AI-native bid aggregation platform with intelligent job matching, indexing 3,960+ public bids across 146 agencies, 42 counties

LAUNCHED [4ecm.com](#) (↗) / [AI Job Report App](#) / [AI Bid Platform](#)

REFUGEE RESOURCES LDN • AI-powered resource access for displaced communities

- Built in partnership with the Islington Centre for Refugees, featuring an AI trained on expert responses and a database of 88+ verified services

LAUNCHED [Refugee.london](#) (↗)

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| PYRI (WILDFIRE DETECTION STARTUP) | Wildfire Status Dashboard | (↗) |
| PINE GLASS (BIOMATERIALS STARTUP) | Pine Resin-Based Composites | (↗) |
| FRENSHIP BAND (1.2M+ SPOTIFY LISTENERS) | Album Artwork + Merch Design | (↗) |

ARKTURA • Sr. Product Design Engineer (Mar. '19 - Jun. '22)

Leading architectural manufacturing and design for clients, such as *Tesla* and *Amazon*

- Developed 5+ next-gen architectural systems by leading cross-functional teams through market research, ideation, prototyping, and production
- Built computational design tools using Grasshopper and Python, including image-to-perforation pattern generation and automated CNC file creation

LAUNCHED [Vapor](#) (↗) / [SoftScreen](#) (↗) / [Arborsia](#) (↗) / [Case Slides](#) (↗)

COURTSIDE • Founding Team (Design + Product) (Dec. '21 - Jan. '26)

Building a beverage brand distributed across 75+ locations, from *Erewhon* to *7-Eleven*

- Co-developed product formula, brand identity, packaging, and digital layouts for coconut-based electrolyte beverage, contributing to 100,000+ units sold

LAUNCHED [Multiple Flavors](#) (↗) / [Case Slides](#) (↗)

JASON KOHARIK • Product Design & Fabrication (Oct. '18 - Mar. '19)

Crafting sculptural furniture and interiors for high-profile clients like *Katy Perry*

LAUNCHED [Califia Lighting](#) (↗) / [Firehouse Hotel](#) (↗) / [Case Slides](#) (↗)

PUFFCO • Product Design Engineer (May '18 - Oct. '18)

Developing the world's first portable and accessible e-rig for cannabis concentrate

LAUNCHED [Peak V1](#) (↗) / [Lucid Lighting Edition](#) (↗)

LUMI (YC '15) • UI/UX Design & Development (Intern) (May '16 - Aug. '16)

Making it easy to work directly with thousands of packaging and print factories online

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| WEBSITE | patrickposs.com (↗) |
| MORE | github (↗) linkedin (↗) |
| APPS | DJ Claude (↗) AI agents live coding music together in the CLI & Web. Transmissions (↗) In silicon, we simulate silica. A meshless 3D optical interface. Existential Survey (↗) |

Education

MA/MSc. ('22 - '24)

Innovation Design Eng.

Imperial + Royal College of Art
[IF design award](#) recipient for passive daytime radiative cooling project with Imperial's Future Materials Lab

[MA/MSc. Project](#) (↗)

BSc. ('14 - '18)

Mechanical Eng. Design

Univ. of Southern California
Boeing engineering scholarship recipient

Skills + Tools

CREATIVE DEVELOPMENT

- React, Next.js, Node.js, Python, Three.js, GLSL, Anthropic SDK, MCP, RAG, GSAP, Supabase

PHYSICAL COMPUTING

- Arduino, Raspberry Pi

3D & FABRICATION

- Blender, Unreal, Solidworks, Rhino, Grasshopper, Keyshot, 3D Printing, Metalwork, Woodwork, CNC

AI & GENERATIVE MEDIA

- Cursor, Claude Code, OpenClaw, Weave, ComfyUI, ElevenLabs, Veo

DESIGN & SYSTEMS

- Figma, Adobe CC, Miro

Recognition

Deezen Longlist: [Freelance Project](#) (↗)

IF Design Award: [MA/MSc. Project](#) (↗)

Patent Awarded: [Arktura](#) (↗)

Architizer Jury Winner: [Arktura](#) (↗)

Interior Design Award: [Arktura](#) (↗)