

Ezra Bird

ezrajbird@gmail.com | (301) 456 - 6956 | ezrabird.com

EXPERIENCE

JackRabbit Mobility

Contract Industrial Designer & Engineer

August 2025 – Present

- Worked closely with designers to transform sketches into CAD designs for global sourcing and quoting, pioneering a new low-cost bike focused on design optimization
- Designed and managed CMF documentation for six E-bike lines to ensure quality and consistency across product lines communicating directly with global suppliers for total product alignment
- Reduced product launch costs by leveraging photorealistic renders in marketing materials, minimizing reliance on expensive and time-consuming external photoshoots

OpenMote

Founder - Engineering, Industrial Designer

October 2023 – Present

- Led the design and development of an open-source PCB for retrofitting Wii Remotes into universal remotes
- Engineered and prototyped custom hardware solutions using 3D printing and laser cutting, ensuring precise fit within existing Wii Remote cases while optimizing for manufacturability
- Managed and created content for three social media platforms growing audience for pre-launch sales

HappyWorks

Founder - Engineering, Manufacturing

June 2024 – May 2025

- Launched an innovative cooking thermometer, applying human-centered design techniques and rapid prototyping to develop the product efficiently within a limited budget
- Managed and led an interdisciplinary team of designers to create the next generation of hardware devices
- Designed and shipped packaging that aligned with brand aesthetics and customer delight

Packa.Design

Founder - Industrial Designer, Engineering

May 2022 – August 2024

- Designed and launched an innovative modular pipe and bowl ecosystem tailored to the cannabis market
 - Focusing on modularity, upgradability, and tactility, the Packa ecosystem was created to grow and expand with users' unique desires and rituals for smoking
- Pioneered the use of simulation-driven design to innovate high-impact products
 - Leveraged CFD to simulate airflow of smoke and particulate to determine the optimal design for filtration and smoothness
- Reduced product launch costs by 95% through new prototyping methods, pre-order structuring, and improved design for manufacturing
 - Developed alternate methods for rapid prototyping designs to compare simulated results with real world testing, leveraged 3D printing and laser cutting to reduce turnaround times for validating designs

Samsung (Work Under NDA)

Contract Industrial Designer

October 2021 – December 2021

- Conducted design research, including trend and competitor analysis, to identify differentiation opportunities
- Defined product requirements and prioritized features to align with strategic objectives
- Developed and pitched innovative product concepts informed by research insights to key stakeholders in the research and development team

SKILLS & INTERESTS

Manufacturing Design Skills: 3D printing (SLA and FDM), CNC Milling, Injection Molding, Sheet Metal Bending, Welding, Laser Cutting, Water Jet, PCB Population, Wire Dressing, Packaging Design, Formlabs SLA

Digital Design Skills: Fusion360, SolidWorks, KiCAD, Figma, Blender, Adobe Suite, Microsoft Suite

Technical Skills: CMF Strategy & Documentation, Photorealistic Rendering, Consumer Electronics Design, Design For Manufacturing, Full-Stack Hardware Development: EDA, CAD, C++, Python, Technical Drawing,

EDUCATION

University of Southern California (USC) – Jimmy Iovine & Andre Young Academy

Bachelor of Science in Design, Technology, and the Business of Innovation

GPA: 3.87/4.00

- **Emphasis:** Rapid Prototyping, Industrial Design, Electronics Design, Product Fabrication
- **Honors:** 2023 USC Ming Family Challenge Winner, USC Trustee Scholar, Dean's List
- **Relevant Coursework:** Product Design for Licensing, Principles of Design, Materials, Disruptive Innovation, Founders Dilemmas, Small Business Management, Marketing Strategy for Startups, Physical Computing