

Josh Pelton | R&D Engineer

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Key Skills

- **Mechanical Designer & Engineer**
Simple, functional, manufacturable solutions. Experienced designer for injection molding, mechanisms, sheet metal, weldments, electronics packaging, & mechatronics.
- **Technical Communicator**
Clear & direct writing. Competent hand sketching, digital image manipulation, & technical presentation for engineers & non-engineers.
- **CAD Adept**
Robust surfacing & solid modeling practices. Professional SolidWorks & CREO use since 2008. Master models, sheet metal, weldments, simulation, & drawings.
- **Prototyper & Shop Guy**
Prototype fabrication, manual & CNC machining, 3D printing, PCB code, soldering, mold-making, sewing, assembly, & compulsive shop upkeep.
- **Team Catalyst**
Proactive communicator. Values infrastructure & documentation. Loves to lend a hand.

Employment History

Tact Product Development (2019-2023)

Consumer product design for large Silicon Valley clients using CREO. Injection molded assembly design, PCB layout, thermal management design. Hand-built high-fidelity looks-like/works-like electronic prototypes. Testing to establish design constraints & limitations of components, e.g. lab-certified drop tests, heat dissipation, water intrusion. Created internal best-practice references, templates, & documentation.

Creative Engineering (2018-2019)

Design, engineering, & tooling-ready CAD for a wide variety of consumer products. One-on-one consulting with private inventors, guiding development from napkin sketches to successful products (>1 million sold). Revamped company website, developed internal Wiki, started company D&D night.

Vision Quest Lighting (2013-2018)

Rapid design & manufacture of custom light fixtures, from high-volume industrial drop ceiling units to one-off theme park chandeliers. Worked closely with fabricators on over 200 unique designs per year. Mechanical design for manufacturing & assembly, CAD, BOMs, part drawings, CNC programming/fabrication, documentation, hand-sketched installation instructions, UL compliance, safety & performance testing.

Cooper Lighting (2010-2011)

Successful internal R&D project for flagship 790S product to simplify installation, prompting permanent changes & resoundingly positive customer feedback. Took initiative to update installation instructions, moving from ugly text to friendly graphics.

THK America Inc. (2008-2010)

Aided clients with specification & selection of linear bearings, slides, actuators, machine components.