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23409 Deerfield Road
Los Gatos, CA 95033

Kevin McKinney

June 30, 2018 to Present

Parallel Design

Los Gatos, CA

Self Employed Mechanical Designer

Offering plastic part and mechanical design services, specializing in;

- Eyewear including sunglasses, 3D glasses, specialty and prescription glasses.
- Product design.
- Electronic enclosures and devices.
- B-surf modeling of all things curvaceous.
- Injection-mold design.
- 3D scanning, 3D printing, die-cutting, CNC router and reverse engineering in-house.
- Connecting clients to world class manufacturing and prototype resources in the USA, China, and Malaysia.
- I design primarily in Unigraphics NX.

2013 –2018

Intel Corp.

San Francisco, CA

Mechanical Product Designer

- Lead ME role for multiple wearable and other small electronic device projects.
- CAD design of mechanicals including plastics, sheet metal, magnets, and initial circuit board floor planning for device assembly and fit.
- 2D drafting for production drawings. 3D CAD for product development.
- First-run sourcing of assembly pieces and parts.
- Short-run device assembly for early aesthetic and functional prototypes and developing SOP assembly manuals.
- Support of assembly lines with 3D printed assembly fixtures.
- Industrial Design CAD for aesthetic appeal and comfort in early product development.
- Design of both spring contact and wireless chargers for wearable devices in collaborations between Intel and Tag Heuer, Fossil, Michael Kors, Hublot, and others.
- Magnetic charging device for Vaunt AR glasses.
- Fixtures for Vaunt project relating to verification and placement of hologram.
- 18 projects in 4.5 years working with awe-inspiring teams of very talented people. This job with Intel New Devices Group has been a wonderful experience!

2012 – 2013

Wright Engineered Plastics Santa Rosa, CA

Tooling Development Manager

- Plastic part DFM consulting for medical and electronic companies.
- Plastic part design. Part redesign for moldability.
- Directed the design, construction, and qualification of injection mold tooling in China, Taiwan, and Singapore for molding in the USA at Wright's medical molding facility.

1997 – 2012

Parallel Design

Los Gatos, CA

Contract Injection Mold and product design

- Plastic part design, specializing in eyewear and other curvy shapes.
- Injection mold design.
- 3D scanning and reverse engineering.
- Designed over 300 plastic injection molds primarily for Oakley sunglasses, Revo, ESS, Fox, and Dragon Optical. I specialized in complex tooling using Unigraphics NX.
- Plastic part redesign for moldability and mold design projects for Silicon Graphics, Hewlett-Packard, Microsoft, Tool Tech/Trend Technologies, and many others.
- Created website devoted to teaching plastic part moldability techniques accessed by industry and universities. http://www.paralleldesign.com/moldability_101/index.htm

Parallel Products

Los Gatos, CA

General Partner

- Designed, manufactured, and marketed a product line of covers for Palm Pilot V/Vx and M505 products. Tens of thousands sold worldwide from website and retail.

1988 – 1997

Tool Tech/Trend Plastics

San Jose, CA

Plastic Injection Mold Design/Part Design

- Designed plastic injection molds and parts for Apple, NUMMI, Cisco, Sun, Silicon Graphics, 3-Com, HP, Oakley, and many more. Trained in Unigraphics CAD by and for Apple.
- Developed and implemented a paperless manufacturing process based upon Unigraphics CAD in cooperation with Apple, Sun, and Silicon Graphics.

Core Skills

- Unigraphics NX CAD modeling. I own a NX CAD license.
- Complex freeform surface modeling. If the part can be made, I can make it in CAD, and I can make it moldable.
- Specialize in design of plastic injection molds involving freeform shapes that are difficult or “impossible” to mold.
- Excellent 3-D visualization skills.
- SolidWorks CAD (Novice)

Education

1982 - 1988

CSU, Chico

Chico, CA

B.S. Industrial Technology

- Concentrations in Polymer Technology, Art, Chemistry, Business.
- Self-employed as floor-covering contractor to sponsor my own education.

Outside Interests

Sculpture. Design. Drawing. Welding. Carving. CNC machining. Beekeeping. Sailing. Freeform rock masonry. <http://www.paralleldesign.com/best-of-project-pix.htm>