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Los Gatos, CA 95033

Kevin McKinney

June 30, 2018 to Present **Parallel Design** Los Gatos, CA

Self Employed Mechanical Designer

Offering plastic part design services, specializing in;

- Eyewear.
- Product design.
- Electronic enclosures.
- B-surf modeling of all things curvaceous.
- Injection-mold design.
- 3D scanning, 3D Printing and reverse engineering in-house.
- Connecting clients to world class manufacturing and prototype resources in the USA, China, and Malaysia. I design 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>