

Charlie | CHEOWANICH

Industrial Designer | Project Lead | CAD Surfacing Manufacturing Specialist

BS Industrial Design, California State University, Long Beach

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Experienced Industrial Designer and implementation expert with the ability to rapidly adapt to new workflows and techniques. Effective visual and verbal communicator, sketch to CAD and enthusiastic team player. Proficient in manufacturing requirements and production methods both internal and with contact manufacturers.

2014-Present Verifone

Senior Designer

Design and develop payment devices thru implementing solutions based on deep understanding of consumer behavior in the current and future of interaction models in retail spaces. **Key contributor from product definition through implementing design intent on the ground at the ODM for final production.**

- M400 – Multilane touch screen payment terminal for clients such as Target, Norstroms, etc. Principle stylus and CAD surfer, design team lead on location for first-article production team responsible identifying finish and material compliance and worked directly with engineer and toolers to trouble shoot problems.
- V200c - Countertop payment terminal for small businesses.
- V400c - Countertop touchscreen payment terminal for small businesses.
- P400 – Touch screen pin pad with signature capture used in bank transactions
- UX410 - Unattended contactless card reader for gas stations and other harsh outdoor environments

2012-2014 Intersection-Inc. (at The Design Academy)

Senior Designer | Project Manager

Developed product for various clients leading teams through programs ranging from aerospace components, hazardous zone rated industrial testing equipment, audio components, to electronic sport wearables

- GE Measurement & Control - Reuter Stokes, developed Next Generation Environmental Radiation Monitor.
- Bently Nevada/Commtest, Conducted user, implemented hardware and experience solutions.
- Denon Marantz - HEOS product line, design concept contributor. Delivered volume correct 3D solid files to D&M engineering group with production Class A surfacing.
- Ichor – Design on field wireless performance tracking for startup Ichor out of University of Georgia, Athens.

2009-2012 GadLight

Designer | CAD modeler | UI/UX

Design and develop product from sketch to digitally refined concepts. Focus on designing and as the surfacing specialist, implemented concepts into 3D files true to design intent with absolute honesty to manufacturing requirements. Collaborated with mechanical engineer counterpart to developed sophisticated and efficient workflows utilizing Solidworks, Altium, and Alias to rapidly create highly parametric highly robust CAD databases. Products involved complex design surfaces and utilized highly structured master model methods. Develop role spans into developing master wireframe for UI/UX in multiple programs.

- Dorel International – Juvenile Product Line - concept design, surface modeling, assisted in cut & sew operations to developed complete "Show Car" product line for Dorel to inspire next generation offerings across the brands. Produced from sketch to full scale fully functional concepts including Strollers (3 versions - all complete with accessories), Crib (2 versions - gas assist molded version and tubular iteration), High Chair (2 versions), Bathtub, Interactive infant activity tray, LED and Song Mobile, Swing.
- Qualcomm – TOQ. Develop three generations (1st proof of concept - "QT", 2nd TOQ - then known as "QT2") of glancing devices to showcase Qualcomm's Mirasol low power display technology. Develop color palette through personally building testing apparatus for content to test unique display refresh rate. Developed UI/UX the wireframe, Created GUI guide for developer based setting SDK standards
- Qualcomm – TAGG Pet Tracker – Concepts, Develop 3D Cad coordinating closely with EE to created tightest housing envelope possible and ME to preserve a high design fidelity in the final tooling parts.

2005-2009 Ewing Design Group (consulting)

Design Consultant | CAD model

Developed design for various clients from medical to motocross product. Worked with both established brands and entrepreneurs to help implement their visions by providing design with 3D data and help early stage sourcing contacts.

- Pyng Medical - Cric Field Cricothyrotomy emergency surgical device developed for the Department of Defense.
- Stanley Power Accessories - Design and 3D CAD data for production.
- Spellbound Development Group - Safety knives, Concept, Styling, and Controlling CAD surfacing.
- EVS Sports - Epic Carbon Fiber Knee Brace. Developed and stylized knee brace developed custom hardware for quick latching mechanism.

2002-2003 Aspen Medical Product (Internship)

Research and development in FDA class 1 cervical collars and other orthotics. Built testing platforms for QC, Created and prepare CAD and produced drawings for die-cut tooling, supported development of Sierra Universal Fit Collar, Quikdraw Lower Lumbar Support, and others.

Selected skills and experience:

- Manage design team as the project lead and serving as the client contact.
- 10000+ hours CAD modeling with SolidWorks specializing in surfacing exterior housing from initial concepts to production Class A manufacturing data. (Ewing Design Group, Innovative Liquors, 3D Carbon, Gadlight, GE)
- Extensive experience designing injection molded plastics, machined, and cast metal parts, etc.
- Sourcing manufacturing domestic and foreign.
- Manufacturing quote cost analysis.
- SolidWorks, Adobe Photoshop, Illustrator, Indesign, Flash, Modo, Alias Studiotools, Alias Sketchbook Pro, MS Office

Personal Interest:

Travel, Surfing, Cooking, Fishing, & Rebuilding a Vintage Dirt Bike.