

Kurt Stalsberg

(360) 798-4953 | kurtxjoseph@gmail.com | R&D/Design Engineer

Summary:

Mechanical Engineer with 12 years of experience in R&D for consumer products. Passion for designing functional and reliable plastic parts that enhance user experience. Seeking full-time position in Seattle, WA.

Engineering Skills:

- CAD: Creo Parametric/Direct, Solidworks
- Simulation: Solidworks FEA
- Problem Solving: 8D, Kepner-Tragoe
- DFMEA
- DFM/DFA
- Statistical Analysis: Minitab, DOE, ANOVA, Capability, Reliability
- Tolerance Analysis, GD&T
- Rapid Prototyping
- Basic Machining
- Injection Molding
- PDM/PLM Software: Windchill, Arena
- Project Development Programs: Jira, Airtable
- International Travel/Collaboration

Employment Experience:

Cricut Inc. – Sr. II Mechanical Engineer – Salt Lake City, UT

September 2018 - Present

- Design and validate plastic, sheet metal, machined and elastomeric parts from initial concept to mass production (25k MOQ) for cutting machines involving cosmetic and structural parts, gear trains, mechanisms and accessories; working knowledge of materials and finishes for properties such as strength, wear/friction, creep resistance, etc..
- Collaborate with QA to create and conduct component/system tests to evaluate performance and reliability; perform initial system troubleshooting efforts to diagnose ME, FW, and EE issues and communicate to respective owners
- Worked with SW engineers to implement machine calibration methods and reduce station calibration time by 90 seconds
- Reduced predecessor carriage assembly cost by 34% through lower part count, decreasing motor specifications, and simplifying the assembly process
- Provide EEs with mechanical requirements for PCB layouts of various buttons, light pipes, and wire routing configurations
- Travel overseas to support production qualification builds involving rapid troubleshooting of parts, fixtures, assemblies and machine line calibrations; instruction of contract manufacturers, suppliers and Cricut counterparts
- Review packaging drop test results per ISTA 3A standard and provide design feedback
- Panelist for 50+ technical interviews for Mechanical Engineer and Project Manager positions

Hewlett Packard – R&D Mechanical Engineer – Boise, ID

September 2013 – September 2018

- Owner of 118 mechanical issues responsible for monitoring, troubleshooting and developing countermeasure solutions for issues involving print quality, mechanical reliability, paper feed performance, acoustics, and scanner reliability
- Designed plastic tray guide lock covers to reduce printer jams, reduce service calls due to improper guide setting and improve customer usability; reduced tooling cost by \$8,000 and standardized parts across product lines
- Designed plastic hinge pocket to enable proper alignment and durability for hinge cycles over product life; validated via FEA
- Collaborated with and travelled to overseas partners throughout development lifecycle
- Designed, scripted and executed tests for reliability testing considering customer usage
- Created Matlab scripts to automate data analysis and save ~20 engineer hours per script
- Acted as Makerspace Lead, helping plan projects and teach classes in 3D printing, LaserJet printers, Arduino, and soldering

Mantec Services Inc – Mechanical Design Engineer – Seattle, WA

June 2012 – September 2012

- Design an internal hinge that required proper horizontal and vertical clearance and perform analysis on composite sandwich platform to determine proper thickness of materials

UW Department of Mechanical Engineering – Undergraduate Researcher – Seattle, WA

March 2010 – June 2013

- Researched information relative to animal locomotion and design a biomimetic linkage system that enabled a robot to move at different velocities with different stepping patterns

Boeing Company (ALVA Intern) – Tool Engineering (Liaison & Design) – Renton, WA

June 2009 – August 2009

- Analyzed damaged tools used to build Boeing-737 commercial airplanes and determine solutions to repair them
- Worked with CATIA V4 to edit tool drawings for safety regulations and learn 3D modeling

Patents:

- Laser Crafting Apparatus, System, and Method: US20240139870A1
- Cutting Tool: WO2024259456A3
- Crafting Apparatus: US20240075760A1
- Material Hold-Down for Laser Crafting Apparatus: USD1066439S1
- Tools, Methods, Assemblies and Systems for Crafting Apparatus: WO2025019582A1
- Material Cylinder Feeding Device: WP172085A4

Education:**University of Washington – Seattle, WA**

Graduated June 2013

3.57 | BS in Mechanical Engineer (Mechatronics option)

*2013 Outstanding Design Award (Capstone), Annual Dean's List Award

Capstone Project Summary: Design and prototype of prosthetic foot with active metatarsal joint that allows for a more symmetrical walking gait.

About Me:**Interests:** Guitar (song writing), snowboarding, skateboarding, backpacking/camping, mountain biking, The Legend of Zelda**Personality:** INTP (Myers-Briggs designation), creative, flexible, adventure-seeking, self-driven/motivated, versatile, knowledge-seeking