

OBJECTIVE

Creative, energetic mechanical design engineer seeking an opportunity to develop state-of-the-art products for the consumer electronics industry. I aim to work on challenging projects that help me to grow both my technical and leadership skills, while delivering solutions that exceed all expectations of the end-user.

EDUCATION

Stanford University — B.S. in Mechanical Engineering, specializing in Product Design Spring 2010
Stanford, CA GPA: 3.6

L'Institut Supérieur d'Electronique de Paris Fall 2008
Paris, France

WORK EXPERIENCE

Lab 126, Cupertino, CA May 2011 - Present

Created comprehensive mechanical documentation for 5 products including power adapters, cables, and lighted book covers for e-reader devices. Owned product architecture as well as detail design of plastic enclosures and metal parts now in mass production. Collaborated with EE hardware on selection and layout of main PCB components affecting enclosure details such as porting. Interfaced extensively with internal groups including ID, Reliability, Operations, Product Management, Safety/Compliance, and Audio Engineering. Took monthly trips to Asia to evaluate vendor capabilities, draft DoE plans to identify root cause for manufacturing quality issues, design test fixtures for mechanical testing, implement process control plans based on DoE results and statistical tolerance analyses, and troubleshoot assembly lines to correct Finished Goods-level issues.

Serendipity, Menlo Park, CA Winter 2010 - Spring 2011
User experience design for mobile, location-aware, personal networking product. Led product definition through customer studies and competitive analysis. Created wireframes, front-end UI/graphical components, and branding content as part of a small team.

Stanford University ME Dept., Stanford, CA May - September 2009
Designed studio space for Stanford's graduate program in Design. Identified graduate student/program needs, designed and developed an inspiring work environment, and built the new studio with machine tools. Dramatically improved workspace usability and helped to revitalize the student community surrounding the studio.

Stanford's Education Program for Gifted Youth, Stanford, CA February - August 2007
Instructor for gifted Physics, English, and Math students & Residential Counselor for middle school academic summer camp.

TECHNICAL AND LEADERSHIP COMPETENCIES

- Excellent written, verbal, and visual communication skills- High-level drawing and spatial reasoning abilities
- Strong analytical and problem solving abilities
- Strategic, creative and innovative thinker
- Team player, highly motivated, results-oriented, resourceful and decisive
- Proficient at 3D solid modeling & 2D drawing generation using Pro/E Wildfire 5.0 and SolidWorks; surfacing abilities
- GD&T; Statistical Process Control methods with tools including R and Excel; Gage R&R for FAI measurement methods
- Design and manufacturing of plastic and metal parts; product architecture
- Design for Manufacture (experience with injection molding, stamping and forming, casting, and various surface decoration processes)
- Design for Assembly (experience designing for ultrasonic welding, heat staking, press fit, various mechanical fasteners and adhesives)
- Hands-on project background working with mill, lathe, CNC router, welding, laserCAMM, FDM, and SLA
- Experience forming relationships with ODM teams in China and South Korea
- Expertise in Adobe Illustrator, Photoshop, Dreamweaver, Flash, After Effects, and Soundbooth

DISTINCTIONS

Top-tier, "exceptional performer" in Lab126 annual performance review
Designed patent-pending 4-way twist lock interchange mechanism for adapter product
Becton Dickinson Academic Achievement Scholarship
Book Award: University of Rochester Award for Humanities and Social Sciences

FOREIGN LANGUAGE - FRENCH

5 years formal education, fluent in reading & writing. Coursework at L'Institut Supérieur d'Electronique de Paris conducted entirely in French.

OTHER INTERESTS

Drawing, painting, digital art, animation; Composing and performing music, audio recording, editing and sound design; Photography; Sports, fitness; Travel; Classical music. While in school, I organized a public gallery showing of my original paintings, in collaboration with one other artist.

- Student design portfolio: www.michaelmccorddesign.com