

# cameron jue

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Portfolio:      www.cameronjue.com      Location:      Seattle, WA

**overview**      Senior mechanical engineer dedicated to addressing genuine needs and challenging problems through elegant design. Hands-on experience with all phases of human-centered product development, from research and concept generation through high-volume production. Particular focus on mechanical architecture, detailed design for manufacturing, and cross-discipline collaboration. Deep prototyping and 3D CAD expertise to hit the ground running, learn and iterate quickly, and drive the project forward to meet the needs of the business and the market.

**education**

- **B.S. Mechanical Engineering** degree at Brown University, Providence, RI
- **M.S. Product Design** degree at Stanford University, Stanford, CA
- Classes at the Rhode Island School of Design, Providence, RI targeting rapid visualization, prototyping, and fabrication

**expertise**

<b>Tools</b>	<b>Processes</b>
<ul style="list-style-type: none"><li>• SolidWorks (solid, surface, simulation)</li><li>• Creo, Pro/ENGINEER</li><li>• NX CAD</li><li>• Abaqus FEA</li><li>• GibbsCAM</li><li>• PDM systems (Solidworks, Arena)</li><li>• Adobe Creative Suite</li><li>• KeyShot</li></ul>	<ul style="list-style-type: none"><li>• Design for manufacturing and assembly</li><li>• Plastic injection molding (including multi-shot)</li><li>• Ultrasonic welding, silicone overmolding</li><li>• Metal injection molding</li><li>• Metalforming (deep drawing, spinning, forging)</li><li>• Composite material and part development</li><li>• Detailed design, specification, and drafting</li><li>• Mechanism design</li><li>• Tolerance analysis</li><li>• Testing and failure analysis</li><li>• User research and synthesis</li><li>• Vendor and supplier relations</li><li>• Team and project management</li></ul>
<ul style="list-style-type: none"><li>• Rapid prototyping and 3D printing</li><li>• CNC and manual machining</li><li>• Resin and rubber casting</li><li>• Welding and soldering</li></ul>	

**experience**      **ChefSteps, Sr. Mechanical Design Engineer, Spring 2015 – Spring 2019**

Designed, engineered, and launched Joule as the smallest, most powerful sous vide circulator on the market. Owned the product architecture and effectively all mechanical parts across a wide range of manufacturing processes. Responsible for all detailed part drawings, technical supplier communication, and tooling approval. Provided mechanical guidance for rigid and flexible circuit integration throughout development and production. Traveled overseas to ramp and sustain high-volume manufacturing, including several new SKUs, accessories, and certification projects (domestic and international).

Co-led development of a second-generation product on track for significant cost reduction, an expanded feature set, and uncompromised performance. Drove the industrial design, product-level mechanical architecture, subsystem integration, and many individual parts.

Developed novel applications and processes around thick-film heating technology in the kitchen space, resulting in several pending patents. Owned a primary subsystem within an entirely new product line and drove the overseas production of tooled prototypes for EVT.

Performed an integral role in growing the ChefSteps hardware team, expanding the ME group as well as in-house EE, FW, and ID capabilities. Developed and implemented a robust part numbering system and release process. Mentored fellow MEs regarding best practices in SolidWorks and top-down design.

**M9 USA, Design Engineer, Fall 2013 – Spring 2015**

Designed high-strength composite products for the military, automotive, and consumer markets, as well as the tooling and forming processes that made such products possible.

**MakerHaus, Working Member, Spring 2013 – Fall 2013**

Developed curriculum to introduce fledgling makers to the cutting-edge tools at MakerHaus, tapping into a wealth of local knowledge through experts in design of all shapes and sizes. Taught hands-on classes and provided mechanical expertise for clients and members.

**Independent Consulting, Freelancer, Summer 2012 – Fall 2013**

Conducted user research and provided design and engineering solutions across a range of industries, including consumer electronics, fitness equipment, and smart agriculture. Focused ideas into elegant concepts, prototypes, and products.

**Stanford University PRL, Teaching Assistant, Spring 2011 – Spring 2012**

Staff member of Stanford's Product Realization Lab. Led structured lab sections and held open shop hours to teach fellow students how to build their designs safely and effectively. Coached small groups of students working on projects throughout each quarter, helping them address design and manufacturing challenges along the way.

**Synapse Product Development, Mechanical Engineering Intern, Summer 2011**

Led the mechanical engineering effort in developing a handheld medical device from early-stage prototype to low-volume production model. Collaborated closely with the industrial design team to streamline both the aesthetics and user interaction. Supported several ongoing projects with key clients.

**Grove Instruments, Engineering Intern, Fall 2009 – Summer 2010**

Worked within a start-up environment as the primary mechanical engineer in designing a noninvasive blood glucometer. Liaised with an external product development firm to build a new generation of functional prototypes.

**IDEO, Intern, Summer 2008 / 2007 / 2006 / 2005**

Worked with the IDEO Knowledge Sharing team to design and launch a new version of the company's intranet, strengthening connections between members of the design community and the project work surrounding them.

Researched, visualized, and implemented a redesign of IDEO's shipping and receiving facilities, utilizing IDEO's core methodology of design research, brainstorming, and rapid prototyping.

Researched and wrote client-facing project experience documents for IDEO's Marcom group. Assisted in the creation of marketing collateral.

Worked with the IDEO Experience and Facilities team to implement a computer-based indexing and archiving system for physical assets. Participated in IDEO Boot Camp and performed research for client projects.

**awards  
& honors**

Red Dot Award: Product Design 2017  
The Dieline Award 2017  
National Merit Scholarship  
Robert C. Byrd Honors Scholarship  
International Baccalaureate Program

**other  
interests**

Rock climbing  
Backcountry telemark skiing  
Gourmet cooking and baking