

Catherine Jameson

Product Design Engineer

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Solving problems by combining engineering knowledge and a passion for human-centered design

Experience:

- Mechanical Engineer, Fitbit 2016-current
- Designed parts in CAD for a new wearable device
 - Collaborated with suppliers to confirm DFM and troubleshoot issues
 - Owned the mechanical design and validation of a battery, RF antenna, injection molded component, and electrical sensor with water sealing solution
 - Worked closely with industrial design, UX research, electrical engineering, R&D, RF, tooling, reliability, manufacturing, and operations
 - Launched a Fitbit mentorship program to foster career growth
- Mechanical Engineering Intern, Fitbit Summer 2015
- Resolved manufacturing issues at a prototyping build in Asia for Fitbit Charge 2
 - Designed test fixture for electrical testing and a test plan for water sealing trials
 - Created drawings for parts; performed tolerance and failure analysis
- Student Design Aide, Center for Engineering, Innovation, and Design, Yale University 2013-2016
- Designed and led workshops on laser cutting, sewing, and chemistry of chocolate
 - Advised students on project planning, technical skills, and tool safety
- Industrial Design Intern, Studio Murmur, Chicago Summer 2014
- Characterized a sustainable material made from mushrooms and plant waste
 - Prototyped, iterated, and sketched new product concepts
- Researcher, Creative Action Lab, Northwestern (with Prof. Elizabeth Gerber) Summer 2012
- Analyzed interviews and conducted research on collaboration and creativity
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Education:

- Yale University, B.S. in Engineering (Mechanical), GPA: 3.89 / 4, Tau Beta Pi 2012-2016
- Relevant Coursework: Medical Device Design and Innovation, Appropriate Technology for the Developing World, Computer Aided Engineering, Intelligent Robotics, Musical Acoustics and Instrument Design, Strength & Deformation, Fluid Mechanics, Thermodynamics, Computing for Engineers, Graphic Design, Drawing Architecture
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Skills:

- CAD: Creo Parametric, Solidworks, CorelDRAW, Adobe Photoshop, Adobe Indesign
- Tools: laser cutter, 3D printing, power tools, hand tools, sheet metal tools, sewing machine
- Communication: physical prototyping, user research, sketching
- Coding (basic knowledge): C, Python, R, MATLAB
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Leadership and Arts:

- Business Manager and Tour Manager, Redhot & Blue and Whim 'n Rhythm, Yale 2013-2016
- Organized transportation, performances, tours, and rehearsals for 14 singers
 - Managed \$40,000 budget
 - Coordinated performances, housing, and transportation for two tours to Chicago
- Student of classical voice, Yale 2013-2016