

CAMILLE RUCKER

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EDUCATION

- Cornell University, College of Engineering** Ithaca, NY
Bachelor of Science in Mechanical Engineering with minor in Design and Environmental Analysis 2015-2019
- GPA: 3.96/4.00
 - Meinig Family Cornell National Scholar
 - Coursework includes Thermodynamics, Mechanics of Materials, Statics and Mechanics, Mechanical Synthesis, Engineering Modern Structures, Mechanical Properties and Material Selection, Physics (mechanics, E&M, waves and quantum), Computer Science, Differential Equations, Linear Algebra, Ergonomic Design, Introductory Design, Design Psychology
- Yestermorrow Build/Design School (gap year)** Waitsfield, VT
Certificate in Sustainable Building and Design, Certificate in Woodworking 2014-2015
- Designed and built independent projects including a desk, cabinets, and chairs (see website)
 - Studied architecture, sustainable building technologies, permaculture and urban planning
- Phillips Exeter Academy** Exeter, NH

EXPERIENCE

- Intel Corp, Chandler, AZ** Summer 2016
- Characterized and enhanced 3D digital imaging equipment used to measure semiconductor package strain
 - Characterized warpage and shape changes of microprocessor packages as a function of process conditions
- Taktse International School, Sikkim, India** Summer 2013
- Developed and led robotics curriculum for high school students. Primary English and Math teacher for first grade
- Juggernaut Design, Scottsdale, AZ** Summer 2012
- Researched, designed and prototyped products for clients. Completed independent project of collapsible water bottle drying rack
- Arizona State University Robotics Lab, Tempe, AZ** Summer 2012
- Conceptualized, built, and programmed an Arduino-controlled robot to interactively teach geometry to middle school students

SKILLS

Computer: AutoCAD, Solidworks, Java, MATLAB, Arduino, Google Sketchup, CorelDraw
Design: Laser Cutting, 3D Printing, Prototyping, Model Making, Woodworking, Glassblowing, Welding, Certified in Xeriscape and Desert Landscape Design

LEADERSHIP AND EXTRACURRICULAR ACTIVITIES

- CUSD (Cornell University Sustainable Design Project Team)** 2015-2016
- Developing a machine learning-based smart HVAC controller to minimize energy usage and costs
 - Led the design and building of a full-size model office outfitted with insulation and ductwork for HVAC system testing
 - Developed sustainability metric and indicator graphic for consumer products to allow informed purchase decisions
- Outdoor activities**
- WMI Wilderness First Responder
 - Trekking: Month-long Philmont Boy Scout "Rayado" backpacking trek (>250 miles), hiked Inca Trail to Machu Picchu, Rim to Rim Grand Canyon hikes
 - Scuba: Rescue Diver, Emergency First Responder, Advanced Underwater, Night Diver, and 7 more

HONORS

College Board AP Scholar with Distinction 2014
Phillips Exeter Academy Art Department Award 2014
Scholastic Art Award Gold Keys for sculpture/fashion design and glassblowing 2013, 2014
NCWIT National Award Winner (National Center for Women & Information Technology) 2013