

CAMILLE RUCKER

<http://camillerucker.github.io>
car285@cornell.edu ♦ 480-297-8828

EDUCATION

Cornell University, College of Engineering

Ithaca, NY

Bachelor of Science in Mechanical Engineering with minor in Design and Environmental Analysis 2015-2019

- GPA: 3.9/4.00
- Meinig Family Cornell National Scholar
- Coursework includes Ergonomic Design, Introductory Design, Design Psychology, Visual Literacy and Design Studio, Design Graphics and Visualization Studio, Computer Science, Linear Algebra, Differential Equations, Engineering Modern Structures, Thermodynamics, Statics and Mechanics, Physics (Mechanics, E&M, Waves and Quantum)

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

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

DFA (Design for America)

2016-

- Working to increase student compliance of composting and recycling guidelines to reduce landfill waste

Outdoor activities

- WMI Wilderness First Responder
- AAI Alpine Mountaineering and Technical Leadership (4 weeks)
- 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

NCWIT National Award Winner (National Center for Women & Information Technology)

2013