

# Hans von Clemm

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## Education and Relevant Coursework:

The University of Colorado at Boulder. Bachelor of Science in Mechanical Engineering. Computer Science Minor. Specific pursuits in Sustainable Design/Transportation, Robotics, and Machine Design.

**Skills:** Proficient in Solidworks (1000+ hrs), Matlab (500+ hrs), C++ (500+ hrs), Arduino, Python, PANDAS, MySQL and Microsoft programs. Practical skills include soldering, 3D printing, lathe work, milling, CNC machining, carpentry, welding, and general shop work. Fluent in English, Spanish, and German.

## Engineering Design, Manufacturing, and Management Experience:

### **Machine Design Intern**

Kestrel Materials, San Francisco, CA

*March 2017 - August 2017*

- Helped design and construct several highly specific machines to spin a thermally adaptive thread.
- Prototyped potential mechanical solutions using CAD software.
- Sourced and ordered key hardware, materials, and parts.
- Handcrafted custom parts for machine optimization.
- Wrote software to enhance machine efficiency and monitor conditions while unattended.

### **Prototype Engineering Intern**

Otherlab, San Francisco, CA

*March 2016 - August 2016*

- Responsible for rapid prototyping of over 5 different vehicle concepts, using a variety of techniques and tools.
- Designed and implemented key features for the construction of a new Neighborhood Electric Vehicle.
- Researched suspension design and incorporated recommendations into product creation.

### **Home Based iPhone Repair**

Palo Alto, CA

*September 2012 - October 2015*

- Self taught to repair iPhones, from cracked screens to water-damage.
- Fixed up to 5 phones a week for fellow students, family, and friends. Profiting up to \$200 per week.

### **Construction Apprentice**

von Clemm Construction, Bay Area, CA

*March 2011 - July 2013*

- Employed as a construction apprentice for several years during summers and after school.
- Developed comfort in a wide range of construction skills, from plumbing and electrical work to demolition.

## Engineering Projects:

### **Beem Lab Environmental Test Chamber**

*August 2018- Present*

- Designed a test chamber to speed up and monitor the degradation process of biodegradable electronics.
- Integrated 15 sensors and control units to manage high precision flow and temperature.
- Managed all CAD and Manufacturing, coordinating amongst a team of 6.

### **Drill Powered Vehicle**

*January 2017 - May 2017*

- Brainstormed, designed and built a sleek, low-cost drill powered vehicle to compete in a series of competitions.
- Project Manager of the winning team.
- Custom welded frame and integrated several components to optimize build.

### **On-Wrist Heart Rate Monitor**

*Sept. 2015 - December 2015*

- Utilized Arduino and other available technology to design a heart rate monitor for the visually and physically disabled in order to support their workout habits.
- Delivered a working product to the client which they chose to move forward with.

## Interests:

- Outdoors - Trail Running, Mountain Biking, Ski Touring, pursuit of a Sustainable Future

<https://www.linkedin.com/in/hansvoncl Emm/>