

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.

Seeking employment in **Spring 2019**

Specific pursuits in Sustainable Design/Transportation, Robotics, and Machine Design.

Skills: Proficient in Solidworks (1000+ hrs), Matlab (500+ hrs), C++ (500+ hrs), Arduino, Python, 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/>