

# Nathaniel Farber

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## Education

**B.S. in mechanical engineering (in progress)**, University of Colorado, Boulder. Expected graduation: Spring 2008.

## Experience

**Engineering Intern**, Cool Energy, Inc., June 2007 – present. Designed components, assemblies, and calibration and test equipment for Solar-Stirling combined heat and power systems. Produced fabrication drawings, patent drawings, and assembly documentation.

**Engineering Intern**, University of Colorado Laboratory for Atmospheric and Space Physics (LASP), December 2004 – June 2007. Designed ground support, test, and calibration equipment for satellite instrumentation. Designed flight hardware, including instrumentation currently in space. Produced fabrication drawings, assembly drawings and assembly instructions. Completed extensive professional GD&T certification course. Performed vibration analysis on flight hardware. Presented engineering analysis and design work at internal and external design reviews.

**Space Grant participant**, University of Colorado, Fall 2004. Designed and fabricated mechanisms for student satellite project and competed in national design competition.

**TA, Computer Aided Design and Fabrication**, University of Colorado, Fall 2007. Instruct a CAD lab section, assist students with SolidWorks, engineering drawing, and GD&T. Grade assignments.

**Team Captain**, Terra Linda High School FIRST Robotics Team, 2003. Team member 2001 – 2003. Led team, Designed and fabricated robotic systems, and competed in state-wide robotics competitions.

## Completed Coursework

Calculus, physics, statics, dynamics, thermodynamics, fluid dynamics, materials science, circuits, heat transfer, computational methods, manufacturing technology, CAD, statistics, component design, engineering computing.

## Fabrication experience and Machine Shop Skills

CNC mill programming, manual mill operation, lathe operation, MIG welding, Sheet metal forming, composites fabrication, soldering.

## Honors and Activities

- Study Abroad, Christchurch, New Zealand, Spring 2006.
- College of Engineering Dean's List for outstanding academic achievement, 2 semesters.
- CU Cycling Team, Fall 2003 – Present.
- Marin County Physics Olympics Champion, Spring 2003.