

# Ryan Stewart

6870 W 91<sup>st</sup> Ct Apt. 9208  
Westminster, CO 80021

303-946-3306  
[ryaustew@gmail.com](mailto:ryaustew@gmail.com)

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## Education

**Colorado School of Mines - Golden, CO**  
Major: **Engineering Physics**

**B.S. May 2014**

## Industry Experience

**Hirsh Precision Products-Boulder, CO**

**May 2014-Present**

- Clean room assembly for a manufacturer of specialized components
- Inventory management
- Performed quality assurance checks to ensure precise measurements and appearance

## Engineering and Technical skills

### Computer Skills

- C++
- LaTeX
- Mathematica
- Solid Works
- Microsoft Office: Word, Powerpoint, Excel

### Engineering skills

- Vacuum Systems: thin film deposition, construction, measurement
- Analog and Digital Circuits: reading schematics, logic/binary, construction/soldering
- Optics: laser generation, mirrors, electromagnetism
- CNC, Lathe operation

### Skilled at Technical Writing

### Problem Solver

## Project Experience

### Plasma Experiment in Vacuum-Mines Senior Design

**2013-2014**

- Designed and built vacuum chamber to generate a plasma
- Developed experiment to be used in future class of students
- Documentation research and technical writing

### Microprocessor Lab

**Spring 2014**

- Understanding of microprocessors and their construction
- Designed and built a transistor
- Handled dangerous chemicals and operated in clean rooms
- Speaking presentation on the results of handmade transistor

### Asteroid Sampling Tool-EPICS II Multidisciplinary Team Project

**Spring 2012**

- Designed method of obtaining a sample of an asteroid under strict parameters
- Heavy use of SolidWorks to design
- Research of physics in space and materials science
- Presented design proposition to client

## Honors and Activities

- Dean's List
- Theater Club: treasurer, publicity, secretary, director
- 52eighty barbershop chorus
- Boy Scouts