

William H. Weiskopf

SOFTWARE ENGINEER

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"Must be the change that you want to see in the world."

Education

Coloirado School of Mines (CSM)

Golden, Colorado, United States

B.S. IN ENGINEERING, MECHANICAL EMPHASIS

December 2013

- Computer Science minor
- Economics minor

Experience

Lockheed Martin Space Systems Company

Littleton, CO

SOFTWARE ENGINEER - ORION: NASA'S NEXT MANNED SPACECRAFT

September 2014 - Present

- Principle architect in moving Orion ground software testing from pen and paper to full automation using a framework based on Pytest.
- Using Python and LaTeX, built a tool to generate deliverables to the NASA-Lockheed Software Control Board. Every verification cycle (3 months), an engineer can compile these deliverables the day of, saving them a month or more spent on paperwork.
- Flight software verification automation tiger team member, especially to bring the knowledge and processes established automating the ground software verification.
- Built a recursive-descent compiler for a templating language similar to Jinja2.
- Verified software requirements for NASA.
- Test driven development.

🔧 Python · LaTeX · Sphinx · Linux · JIRA · Jenkins · Confluence · Elasticsearch, Logstash, Kibana

Air Sciences, Inc.

Golden, Colorado

NETWORK ADMINISTRATOR

November 2011 - March 2014

- Purchased, set up and maintained servers, computers, and networks.
- Provided technical support.
- Interviewed and trained three new administrators.

🔧 Django · Network configuration · Linux administration · User support

CSM Engineering Laser Laboratory

Golden, Colorado

RESEARCH ASSISTANT

Fall 2013

- Researched effect of humidity on laser efficiency with Dr. Christopher Dreyer.

CSM Alumni Association

Golden, Colorado

SOFTWARE DEVELOPER

August 2010 - April 2014

- Web Development: website design, web app, eNewsletter, graphics, audio, and video.
- Data Specialist: update and maintain alumni records database.

🔧 Django · Wordpress · Audacity · Image manipulation · Web design

Independent Consultant

WEB DESIGNER/DEVELOPER · ADMINISTRATOR

2009 - Present

- Network and client workstation administration and set up.
- Website design, development, and deployment.

🔧 Web design · User support · MacOS

Projects

NASA International Lunabotics Competition

Golden, Colorado · KSC, Florida

CSM SENIOR DESIGN PROJECT

August 2012 - May 2013

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Killough Drive Robot

Golden, Colorado

CSM ROBOTICS FINAL PROJECT

Spring 2012

- Alternative locomotion platform, simultaneously lateral and rotational movement.
- Embedded controller programmed using C++ derivative.

Team Montor, Referee

FIRST ROBOTICS COMPETITION

- Mentored high school students in engineering principles, helped design and build a robot for competition.

Golden, Colorado