William H. **Weiskopf**

SOFTWARE ENGINEER

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

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 system to generate NASA deliverables. Every three 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 · Elasticsearch, Logstash, Kibana · Linux · JIRA · Jenkins · Confluence

Air Sciences, Inc.   *Golden, Colorado*

NETWORK ADMINISTRATOR   *November 2011 - March 2014*

- Purchased, set up and maintained servers, laptops, and networks for a fifty person company.
- Introduced new processes such as a ticketing system, wiki, and KVM virtual machines.
- Interviewed and trained three new administrators.

✎ Django · Mediawiki · 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 audio editing · GIMP 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

Education

Coloirado School of Mines (CSM)   *Golden, Colorado, United States*

B.S. IN ENGINEERING, MECHANICAL EMPHASIS   *December 2013*

- Computer Science minor
- Economics minor

Projects

Containerized Server

Late 2016

- Converted an Ubuntu server into containers, running on RancherOS.
- Using btrfs, for a modern copy on write, self repairing filesystem.
- Mumble, Plex, Subsonic, Borb backup, Beets, Samba, NGINX

NASA International Lunabotics Competition

Golden, Colorado · KSC, Florida

CSM Senior Design Project *August 2012 - May 2013*

Mentor, Referee

Golden, Colorado

FIRST Robotics Competition

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