

William H. Weiskopf

SOFTWARE ENGINEER

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"If you want to build a ship, don't herd people together to collect wood and don't assign them tasks and work, but rather teach them to long for the endless immensity of the sea."

Experience

Lockheed Martin: Space Systems

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 compiles 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.
- Volunteer for Code Quest, LM's computer programming competition for high school teams.

🔧 Python · LaTeX · Sphinx · Elasticsearch, Logstash, Kibana · Linux · Vim · Perforce · JIRA · Jenkins · Confluence · Test driven development

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 · Git · Mediawiki · Network configuration · Linux administration · User support

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 & development · Git · Shared hosting · User support · MacOS

Education

Colorado School of Mines (CSM)

Golden, Colorado, United States

B.S. IN ENGINEERING, MECHANICAL EMPHASIS

December 2013

- Computer Science and Economics minors
- NASA Lunabotics Competition: built a full-size regolith collecting robot and competed with international teams at the Kennedy Space Center.
- FIRST Robotics Competitions: Mentored high school students in engineering principles. Refereed Colorado regional competitions (FRC and FLL).

🔧 SolidWorks · C++ · Java · MATLAB · Python · Git

Projects

Containerized Server

- Converted an Ubuntu server into Docker containers, running on RancherOS.
- Using btrfs, for a modern copy on write, self repairing RAID filesystem.

🔧 Docker (RancherOS) · btrfs · UEFI · RAID · Samba · Mumble · Plex · Borg backup · Beets · NGINX · podbook · greg