

William H. Weiskopf, IV

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." -Antoine de Saint-Exupéry

Experience

Lockheed Martin: Space Systems

Littleton, Colorado

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 with Pytest.
 - Built a Python/LaTeX engine for creating NASA deliverables. Now engineers compile these deliverables the day - saving them a month or more of manual paperwork, per deliverable.
 - Advised the flight software verification automation tiger team, sharing the knowledge and processes established while automating ground software.
 - Built a recursive-descent compiler for a templating language similar to Jinja2.
 - Verified software requirements for NASA.
 - Volunteered for Code Quest, Lockheed Martin's computer programming competition for high school teams.
- 🔧 Python · LaTeX · Sphinx · Linux · Vim · Perforce · JIRA · Jenkins · Confluence · Agile · Test-driven development · ELK (Elasticsearch, Logstash, Kibana)

Air Sciences, Inc.

Golden, Colorado

NETWORK ADMINISTRATOR

November 2011 - March 2014

- Purchased, set up, and maintained servers, laptops, and networks for a 50 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, newsletter, graphics, audio, and video.
 - Data Specialist: updated and maintained alumni records database.
- 🔧 Django · Wordpress · PHP · HTML/CSS · 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

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 (FEA) · LabVIEW · C++ · Java · MATLAB · Python · Git · Arduino · Machine shop · Feedback controls

Projects

Containerized Server

2015 - Present

- 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