

EXPERIENCE

Google, Inc. 2013-Present

Senior Software Engineer

Datacenter Software

Datacenter Software - Google 2020-Present

Machine Health - Modeling Improvements

Datacenter Software - Google 2014-2020

Surgeon 3 - Lead Developer/Tech Lead

Datacenter Software - Google 2013-2014

R3/Silk Roads

NASA Jet Propulsion Laboratory 2007-2013

Software Engineer

Designed, developed and maintained science processing software, ground system software, and data visualization software.

Jason-3 - NASA/JPL 2010-2013

ARCS Software Development Lead

Designed, architected and developed the Assistive Radiometer Calibration system for the Advanced Microwave Radiometer of the Jason-3 satellite. Oversaw one additional developer for this development. ARCS itself was a web-based tool for assisting science users in creating calibrations through iterative experimentation, metrics generations, and semi-autonomous recalibration.

Jason-3 - NASA/JPL 2010-2013

Ground Software Development Lead

Designed and developed ground system processing software for the JPL segment of the Jason-3 ground system. Software included data transfer, data processing, and data visualization tools.

OSTM/Jason-2 - NASA/JPL 2008-2013

Payload Operations Systems Engineer

Developed, maintained, and operated ground system processing software for the JPL segment of the OSTM ground system. Acted as day-to-day contact with partner agencies for mission operations.

EDUCATION

Rose-Hulman Institute of Technology 2003-2007

B.S. in Physics and Computer Science

GPA: 3.85 Physics Area GPA: 3.81 CS Area GPA: 4.00

EXPERTISE

Programming Languages:

C, C++, C# (.NET and Mono), Perl, Java, PHP, Python, SQL, Scheme, Matlab, Bash script

Platforms:

Linux, Windows