

DANIELLE NICHOLSON

Systems Engineering Consultant



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EXPERIENCE

Principal | Systems Engineer

Rationality Engineering Design, Inc. 2020 - Ongoing

Colorado Springs, CO

- Leads strategic initiatives for optical Space Situational Awareness (SSA) Systems.
- Developed optical model for deployment to Modeling and Simulation environment.

Systems Engineer

Harris Corporation 2015 - 2017 Colorado Springs, CO

- Lead engineer for Ground-based Electro-Optical Deep Space Surveillance (GEODSS) system software release delivering government mandated operating system security upgrade.
- Lead Systems Engineer for the development of a maintenance concept, plans for operational support, and the CONOPS of the Space Surveillance Telescope (SST).

Systems Engineer

Jacobs Technology 2014 - 2015 Colorado Springs, CO

- Oversaw worldwide integration and change management for 120 active space programs and 237 space systems within the Integrated Tactical Warning and Attack Assessment (ITW/AA) network.
- Monitored changes to ITW/AA system interfaces for impact to System of Systems performance requirements.

Systems Engineer

Kwajalein Range Services 2010 - 2013 Kwajalein, RMI

- Provides technical oversight for mission operations, maintenance, design, development, installation, and test of radar modifications and upgrades, analyzes and measures system performance at ALCOR and MMW.
- Sensor Test Director for MDA, DARPA, AF Global Strike Command, and NASA missions.

Systems Engineer

USAF 2006 - 2010 Colorado Springs, CO

- Responsible for all technical aspects regarding sustainment and modernization of GEODSS/MOSS—systems that provide 90% of all deep-space data supplied to the Space Catalog.

Mechanical Engineer

Intel Corporation 2005 - 2006 Rio Rancho, NM

- System owner responsible for database management of all mechanical process piping networks within the Rio Rancho Campus (4 fabs) and Colorado Springs Campus (1 fab).

EDUCATION

M.E. Systems Engineering

University of Colorado

2008 - 2012

B.S. Mechanical Engineering

University of New Mexico

1999 - 2004

CERTIFICATION

Project Management

University of Colorado Denver

Certified Acquisition Professional, SPRDE, level 2

Defense Acquisition University (DAU)

Certified Acquisition Professional, Program Management, Level 1

Defense Acquisition University (DAU)

AWARDS



Category 2 Civilian of the Quarter

850 Electronic Systems Group - USAF



Mechanical Engineering Intern of the Year

Honeywell

TRAINING / COURSES

Radar Fundamentals

Georgia Institute of Technology

Radar Test Director Course

Kwajalein Range Services

SC/MW/MD Test Management Course

General Dynamics

Defense Acquisition Bootcamp

USAF