

Angela Felton

EDUCATION:

Purdue University
Technology Doctorate, Expected December 2025

Southern Methodist University
Master of Science, Systems Engineering
California State University, Los Angeles
Bachelor of Science, Mathematics
University of California, Irvine
Engineering Coursework

Certificates
California Institute of Technology
Model Based Systems Engineering
Southern Methodist University
Graduate Program Business Analytics
University of California, Irvine
Advanced Software Technology

PROFESSIONAL EXPERIENCE:

Raytheon Technologies

04/24/23 – 08/17/23

Raytheon Intelligence and Space (Goleta, Ca.)

Senior Principal Systems Engineer

- Electronic Warfare Systems Program support

12/18/17 – 01/19/2022

Raytheon Intelligence and Space (McKinney/Richardson, Texas)

- Independent Research and Development – Autonomous Aircraft Teaming

Systems Engineering/Section Manager

- Day-to-day management of engineering staff awaiting program access. Recommended training courses, provided guidance on career planning and development, ensured timely completion of all compliance and role-based training courses.
- Performed employee evaluation and assessments (Mid-year and End of Year)
- Tracked employee status through the security clearance process and coordinated with Department and Program Leadership teams for employee program placement.
- Program Support -
 - Served as Product Owner in a Scaled Agile Framework software development environment.
 - Provided Systems Engineering oversight for Software Integration Testing of the Global Hawk Unmanned Air Vehicle (UAV) 's radar system.
 - Provided support for program cost, schedule, and performance (Earned Value Management)
 - Engineering Process Lead for Global Positioning System-OCX proposal effort
- Diversity and Inclusion Council -
 - Supported initiative to recruit ***diverse*** candidates for ***Technical Leadership*** and ***Management*** roles for the ***Intelligence and Space Division***

BAE Systems, Incorporated

Fort Worth, Texas

11/2015 – 12/14/2017

F-35 Warfighter Sustainment Program - Performance and Decision Analytics

Systems Engineer Principal - Team Lead

- Provided detailed analyses and performance forecasting of spares in the global sustainment enterprise utilizing logistics support analysis tools. Provided models in support of aircraft life cycle planning to include parts reliability and maintainability parameters (Failure Rates, Mean-Time-To-Repair, Mean-Flight-Hours Between Maintenance Actions)
- Provided leadership in the spares modeling tool suite Verification, Validation, and Accreditation effort/DoD customer Point of Contact
- Managed cost, schedule, and performance of team projects
- Conducted staff meetings, provided flow down from executive management team, monitored, reviewed, and approved team labor charges.

02/2014 – 11/2014

Avionic Systems Design – (F-16 Aircraft Modification Program)

Systems Engineer Principal

- Led the design, development and integration of the aircraft cockpit displays system.
- Developed hardware/software requirements, subsystem architecture, and interface diagrams employing Model Based Systems Engineering (Rational Rhapsody – SysML/UML)
- Analyzed and modeled system functionality relative to newly integrated subsystems
- Interpreted and analyzed schematics and wiring diagrams for new equipment installations.
- Collaborated with hardware, software, and supplier engineering teams on requirements development, analysis, and decomposition.
- Presented design artifacts to internal and external customers.

Lockheed Martin Corporation

Marietta, Georgia

05/2009 – 09/2011

Program Systems and Software Quality - Mission Assurance

Systems Engineer Staff - (C-130J, P-3 Aircraft Programs)

- Led the implementation of the Capability Maturity Model Integration (CMMI) Level 3 certification activities on the C-130 Transport Aircraft Program for the Systems Engineering Organization
- Performed engineering process and product audits to verify compliance to program standards and procedures derived from the AS9100 Quality Management System.
- Provided causal analysis and corrective action reports for non-compliant software and systems processes and products.
- Conducted supplier assessments to ensure adherence to quality standards.
- Verified the implementation of software changes via software code reviews.
- Provided oversight to avionics software formal qualification testing.

Lockheed Martin Corporation

Fort Worth, Texas

03/2002 – 04/2006

Mission & Avionics Systems Integration & Verification

Systems Engineer Staff - Team Lead (F-35 Aircraft Program)

- Software Block Lead

- Provided approval to all Mission Systems requirements development packages developed in Rational Rose UML ensuring testability and traceability to higher tier requirements for subsystems (Pilot Vehicle Displays, Communication, Navigation, and Identification, Electronic Warfare, Electro-Optical Tracking, Radar, etc.)
- Chaired the Mission Systems and Avionics Integration Planning Working Group

PREVIOUS VOLUNTEER /COMMUNITY ENGAGEMENT:

- Must Ministries – Served hot meals to the homeless (Marietta, Georgia)
- Middle/High School Substitute Math/Science Teacher (Marietta, Georgia)
- First Lego League – Competition Judge (Fort Worth, Texas)
- Math Counts – Competition Test Proctor (Dallas, Texas)
- Covenant Church – Greet and Welcome Guest (Colleyville, Texas)