

Angela Felton, M.S.

Academic Department: Engineering and Technology
Academic Ranking: Adjunct Faculty
University Address: East Texas A&M University
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E-mail Address: angela.felton@tamuc.edu

Education:

Purdue University
Doctor of Technology - Expected May 2026
Southern Methodist University
Master of Science, Systems Engineering
California State University, Los Angeles
Bachelor of Science, Mathematics

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

Experience:

East Texas A&M University
Commerce, Texas

01/06/24 – Present

Engineering and Technology

Adjunct Faculty

- Engineering and Technology course instructor

Raytheon Technologies
Goleta, Ca.

04/27/2023 – 09/18/23

Raytheon Intelligence and Space

Senior Principal Systems Engineer

- Electronic Warfare program support

12/18/2017 – 01/19/22

Raytheon Intelligence and Space

Principal Systems Engineer

- Independent Research and Development (IRAD) – Autonomous Aircraft
- System Architectural design and development (SysML- Magic Draw/Cameo)
- System requirements analysis and development
- Customer point of contact for issues related to design artifacts

Systems Engineering/Section Manager

- Day-to-day management of engineering staff awaiting program access. Recommend training courses, assist with career planning and development, ensure timely completion of all compliance and role-based training.
- Employee Performance and Evaluation assessments (mid-year and end of year)
- Coached and mentored early career engineers.
- Program Support -
 - Product Owner in a Scaled Agile Framework development environment
 - Provided Systems Engineering oversight to software integration testing of the Global Hawk Unmanned Air Vehicle (UAV)
 - Program cost support (Earned Value Management)
 - Process Lead for Global Positioning System-OCX proposal effort
- Active member of the Diversity and Inclusion Council -
 - Corporate initiative to recruit and retain diverse candidates in Management and Technical leadership.

BAE Systems, Inc.
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 and simulations to support aircraft reliability and maintainability parameters (Failure Rates, Mean-Time-To-Repair, Mean-Flight-Hours Between Maintenance Actions) and aircraft spares life cycle planning.
- Lead the Verification, Validation, and Accreditation effort of the software modeling tool suite.
- Managed cost, schedule, and performance of team projects
- Conducted staff meetings, provided information flow down from executive management team, reviewed, monitored, and approved 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 flight deck 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 processes and products.
- Developed the P-3 Program Plan for Quality
- Led quality improvement initiatives in aircraft parts manufacturing.
- Coordinated and led Test Readiness Reviews both on site and at supplier locations.
- Conducted supplier assessments to ensure adherence to quality standards.

Lockheed Martin Corporation

Fort Worth, Texas

03/2002 – 04/2006

Mission & Avionics Systems Integration & Verification

Systems Engineer Staff - Team Lead (*F-35 Warfighter Program*)

- Software Block Integration & Test Lead
- Led and executed Integration Planning related tasks.
- Developed test planning documentation, provided test procedure writing guidance to junior engineers.
- Represented team at supplier design reviews and program management reviews.

VOLUNTEER /COMMUNITY ACTIVITIES:

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