

Kirk W Kittell

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Skills

Certifications: Project Management Professional (PMP); Project Management Institute Agile Certified Professional (PMI-ACP)

Programming languages: Python, C, XML, PHP, R, SQL

Systems engineering: requirements analysis, use case development, change management, system/software testing, fault modeling, SysML, DoDAF, DOORS

Work

Boeing

2015 to present

Systems Engineer: F-15; B-52 Radar Modernization; MQ-25

Software Integration and Test Lead: AvionX Health Management Systems

Led teams of engineers to develop software testing and aircraft data acquisition software. Created work instructions and plans for requirements development and software verification for DO-178 and ARP4754A (aircraft safety) conformance. Collaborated across product lines to develop software verification processes for the AvionX business unit. Instituted agile development practices for multiple software product teams, serving as scrum master and product owner. Created DoDAF MBSE architecture models for L3/L4 system requirements. Developed fault isolation and fault detection models in MATLAB and proprietary modeling software.

Esterline (now Mason Controls)

2012 to 2015

Systems Engineer: Embraer E2 Thrust Control Quadrant (TCQ)

Personally handled critical tasks across the new product development life cycle: worked with customers and suppliers to define and review system requirements; developed project plans and processes for certification (DO-178 DAL A, ARP4754A); developed prototype hardware and real-time embedded software to validate system performance; performed functional and environmental qualification testing; packaged finished units and shipped them to Embraer for integration. Proven closer.

Raytheon

2009 to 2010

Systems Engineer: Patriot Air Defense System

Science Applications International Corporation (SAIC)

2008 to 2009

Propulsion Subsystem Engineer: Space Shuttle Program

Orbital Sciences Corporation (now part of Northrop Grumman)

2006 to 2008

Systems Engineer: Orion Launch Abort System; Kinetic Energy Interceptor

Education

MBA, Washington University in St. Louis

2019 to (2022)

BS/MS, Aerospace Engineering, University of Illinois

1999 to 2003/2004 to 2006