ANDREW KOWALCZYK

MODEL BASED SYSTEMS ENGINEER

CONTACT

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SKILLS

- MBSE
- SysML
- Cameo Systems Modeler
- IBM Rhapsody
- DOORS
- UML
- DoDAF
- Systems Engineering
- Python
- MATLAB

EDUCATION

Bachelor of Science

05/2022

The University of Texas at Arlington

Arlington, TX

Aerospace Engineering

CERTIFICATES

OMG Certified Systems Modeling Professional (OCSMP) - Model Builder Fundamental

2024

Object Management Group

SUMMARY

Model based systems engineer with 4 years of systems engineering on military aircraft and mission systems, holding an active Secret clearance. Builds MBSE models in SysML with Cameo Systems Modeler and IBM Rhapsody, links them to DOORS requirements, and delivers DoDAF views customers accept at design reviews.

EXPERIENCE

Model Based Systems Engineer 03/2024 - Present

Trinity Aeronautics Defense — Fort Worth, TX

Defense aircraft integrator working on fighter upgrades.

- Maintain a SysML model of **14** aircraft subsystems in Cameo Systems Modeler for a fighter upgrade program.
- Link 3,100 DOORS requirements to model elements, producing traceability reports in minutes instead of days.
- Produce DoDAF operational and system views for 2 milestone reviews, accepted with no major comments.
- Write Python scripts that check model rules, catching 400+ modeling errors before peer review.

Systems Engineer 06/2022 - 02/2024

Brazos Mission Systems — Grand Prairie, TX

Supplier of radar and mission computer subsystems.

- Converted 60 legacy interface documents into IBM Rhapsody models for a radar mission system.
- Drew UML sequence diagrams for 25 mission threads used by software and test teams.
- Calculated timing budgets in MATLAB for 8 data bus interfaces.