Ankur RAMANAN

Overall Systems and MBSE Engineer

About Me

Results-oriented achiever with proven ability to exceed targets and drive success in fast-paced environments. Combines strategic thinking with hands-on experience to deliver impactful solutions and enhance organizational performance.

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Technical Skills

- Microsoft Office (Word, Excel, PowerPoint)
- Cameo Systems Modeler / MagicDraw
- Eclipse Capella v5.2.0
- PLE – Pure::Variants & Cameo MBPLE
- DOORS NG with IBM JAZZ
- Polarion ALM
- MATLAB – SIMULINK
- Atlassian Tools (Jira, Confluence)
- Pacelab – SysArc 6.2
- SolidWorks Part Design & Assembly
- CATIA V5
- SolidEdge
- Materialize 3-matic
- Alcazar - II Aircraft Design
- C++ and Python programming (basics)

Languages

- English
- French *(TCF - B2)*
- Hindi
- Kannada

Interests

- Travelling & Photography
- Personal Development
- Investing & Personal Finances
- Gardening
- Gravel Biking and Hiking
- Avid Reading

Work Experience

AIRBUS PROTECT | Toulouse, France

Feb 2023 - present

Overall Systems, MBSE, V&V and Integration Engineer - ZeroE

- Contribute to shaping tailored learning plans for emerging hydrogen-related phenomena and innovative technologies.
- Assist in evaluating and refining system architectures within a Model-Based Systems Engineering (MBSE) development framework.
- Design and define comprehensive V&V (Verification & Validation) and integration strategies for all aircraft systems.
- Oversee the progress of advanced technology demonstrators, ensuring they align with V&V requirements and overall systems integration objectives.

SAMARES ENGINEERING | Blagnac, France

Feb 2022 - Dec 2022

Modelling and Systems Engineering Consultant (MBSE)

- Researched pure::variants integration with Capella and Cameo to develop 150% models and managed requirements using DOORS NG and Polarion ALM.
- Provided systems modeling support on Cameo Systems Modeler, collaborating with Renault architects.
- Tested plugins and created training materials for Renault and Airbus DDMS using the MOFLT framework.

AKKA TECHNOLOGIES (now AKKODIS) | Blagnac, France

Apr 2019 - Jan 2022

Systems Engineer Consultant (MBSE) for Samares Engineering

- Applied Object-Based and Functional Approaches of MBSE for systems design and analysis.
- Used the ARCADIA method in Capella for advanced Systems
- Developed a comprehensive system design for Autonomous Emergency Braking Systems (ADAS) within Renault using Cameo Systems Modeler.
- Ensured seamless integration, V&V, and captured customer requirements using Systems Engineering best practices.

ATA 24 Modelling Engineer for Airbus projects

- Served as a Model Specialist and Developer for ATA 24 systems modeling, contributing to various Airbus-related projects.

End of Studies Internship / Stage de fin d'études

- Developed and prototyped a robust Electromechanical Actuator (EMA) for a modular aircraft's nose landing gear which also included sizing calculations and 3D modeling using SolidWorks.

Education

Institut Supérieur de l'Aéronautique et de l'Espace (ISAE - SUPAERO)

Master of Science in Aerospace Engineering
2017 - 2019 | Toulouse, France

Manipal Institute of Technology

Bachelors in Mechatronics Engineering
2013 - 2017 | Manipal, India

Certificates

MBSE Training on SysML and ARCADIA (56Oh)
AKKA Reskilling Program - 2020

Research Poster Presentation
More Electric Aircraft Conference, Toulouse - 2019

Model Based Systems Engineering - COURSERA Online Certification
Getting Started with Python Programming - COURSERA Online certification
Data Science - COURSERA Online certification
Introduction to Marketing - COURSERA Online certification