

ALEXANDER MITCHELL

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Systems Engineer with over 6 years of experience in aerospace systems and software development. Demonstrated success in leading complex technical projects, implementing automation solutions, and ensuring regulatory compliance. Expertise in flight systems, performance analysis, and cross-functional team leadership.

SKILLS

- **Project Management:** Agile/Scrum, Team Leadership, Strategic Planning, Risk Management
- **Technical Skills:** Systems Architecture, Flight Dynamics, Performance Analysis, Safety Systems
- **Programming:** Python, C++, MATLAB, Git, Docker, CI/CD, REST APIs, Test Automation
- **Data & Analytics:** SQL, Tableau, Power BI, Statistical Analysis, Machine Learning
- **Systems Engineering:** Requirements Management, MBSE, V&V, Jira, Enterprise Architecture
- **Engineering Tools:** CAD/CAM, FEA, CFD, PLM Systems, Digital Twin Technologies

EXPERIENCE

Senior Systems Engineer

AeroTech Solutions

Jan 2021 – Present

Munich, Germany

- Spearheaded development of next-generation flight control software, achieving 40
- Led integration of AI-driven predictive maintenance system, reducing unplanned downtime by 65
- Managed cross-functional team of 12 engineers, delivering 3 major system updates ahead of schedule
- Implemented automated testing framework, increasing test coverage by 85

Systems Integration Engineer

Global Aviation Systems

Mar 2019 – Dec 2020

Hamburg, Germany

- Developed and implemented system architecture for new aircraft monitoring platform, serving 50+ airline customers
- Led technical requirements gathering and validation for safety-critical systems, ensuring compliance with EASA standards
- Optimized system integration processes, reducing deployment time by 45

Systems Engineer (Graduate Position)

Advanced Flight Systems

Jun 2018 – Feb 2019

Berlin, Germany

- Designed and implemented automated testing protocols for flight control systems, improving efficiency by 30
- Developed simulation models for system performance analysis, contributing to certification requirements

EDUCATION

Technical University of Munich – M.Sc. in Aerospace Engineering

Sep 2016 - May 2018

University of Stuttgart – B.Eng. in Mechanical Engineering

Sep 2012 - Jun 2016

PROFESSIONAL DEVELOPMENT & LANGUAGES

Certifications: Advanced Systems Engineering (TÜV), Machine Learning Specialization (Stanford Online)

Languages: English (Native), German (C1), Spanish (B1)

Interests: Robotics, Drone Photography

Side Projects:

- Creator of OpenFlightSim: Open-source flight simulation platform with 1000+ GitHub stars
- Technical Lead for University Robotics Team: Led team to 2nd place in European Robotics Challenge 2023

PUBLICATIONS

- "Advanced Flight Control Systems: A Modern Approach," IEEE Aerospace Conference, 2023
- "Machine Learning in Aircraft Systems: Applications and Challenges," International Journal of Aerospace Engineering, 2022