

Personal Information

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Education

TUM Asia, Singapore-

Masters in Aerospace Engineering
(1 year masters program, 6
months internship, 1 year
masters thesis) (2022-2025)

National Aviation University, Kyiv, Ukraine-

Bachelors Degree in Aircraft
Maintenance (2017-2021)

Technical Skills

- Aircraft Maintenance & Repair
- Aircraft Engine Maintenance Procedures (Part-66)
- Aircraft Certification & Airworthiness Compliance
- UAV and Ultralight Aircraft Certification
- Flight Control Systems
- Safety Assessment and Certification Documentation
- Finite Element Analysis (FEA)
- Composite Structures & Classical Laminate Theory
- Material Science and Engineering

Software Skills

- MATLAB
- Simulink
- AutoCAD
- Python
- C++

NICHOLAS CHINEDU NWARIBE

Aeronautic Engineer

Competent and skillfull in using computational aeronautic tools. Plenty of experience using and applying avaiation certification documents. Have been trained in both technical and management areas of aerospace. Proficient in the application of computational aeronautical tools. Possesses extensive experience in utilizing and implementing aviation certification documentation.

Work Experience

2024-2025

Institute of Flight Dynamics (TUM), Munich, Germany Master's Thesis Intern

- . Conducted safety analysis of an autopilot system for an ultralight aircraft.
- . Performed Functional Hazard Assessments (FHA) to identify and evaluate system safety risks.
- . Applied Model-Based Safety Analysis (MBSA) techniques using MATLAB/Simulink.
- . Supported compliance activities in accordance with ED-135 and ASTM F3230-17 standards.
- . Developed and maintained technical documentation to support certification and safety assessment activities.

2024

Institute of Flight Dynamics (TUM), Munich, Germany Engineering Intern

- . Assisted in the certification of a radar-equipped UAV system.
- . Applied aviation certification standards including ED-12C and ED-79 throughout the certification process.
- . Prepared and reviewed certification documentation and technical reports.
- . Supported regulatory compliance activities and certification procedure development.
- . Collaborated with engineering teams to ensure adherence to safety and airworthiness requirements.

Major Achievements

Best Research paper, “Active Magnet Bearing”, held at the 21st International Scientific and Practical Conference of Higher Education Applicants and Young Scientists (2020)

Regulatory & Certification Standards

Gained hands-on experience with these certification documentation during my internship, developing a sound understanding of their preparation, interpretation, and utilization in aircraft and aircraft systems certification activities.

- DO-178C
- ARP4754A
- ED-12C
- ED-135
- ED-79B
- Aircraft Certification Processes and Documentation

Safety and Systems Engineering

- Model-Based Safety Analysis
- Fault Tree Analysis (FTA)
- Aircraft Safety Assessment
- System Engineering Principles
- Reliability and Risk Analysis

Langauages

English: Native

Russian: A2

German: B2