



Sanjay Karoliya

Aerospace Engineering Graduate

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Summary -

Aerospace Engineering graduate with hands-on experience in aerospace quality assurance, production planning and methods engineering, and localization quality assurance. Skilled in the complete aircraft engine component manufacturing process —supported by expertise in CAD and simulation tools (AutoCAD, SolidWorks, CATIA V5, PTC Creo, ANSYS Workbench). Proficient in metrology and precision inspection using CMMs, gauges, and calipers. Hold a Master's in Aerospace Engineering and a Bachelor's in Aeronautical Engineering, with broad exposure across multidisciplinary engineering environments. Seeking to leverage this technical foundation, analytical skills, and multidisciplinary background to contribute to innovative aerospace engineering while expanding expertise in quality assurance across engineering and software testing domains.

Skills -

Quality Assurance, Localization Quality Assurance, SQL, Azure DevOps, Jira, Production Planning, Coordinate Measuring Machine (CMM), Metrology, PTC Creo, Fusion 360, CATIA V5, SolidWorks, AutoCAD, GD&T, Tool Design, Ansys Workbench, MATLAB, CFD, Procurement, Purchasing, Sourcing, Vendor Management, IFS ERP, Microsoft Office, Event Organization, Teaching, C++ (Basic)

Work Experience -

Localization Quality Assurance Tester

July 6, 2026 - Present

Lionbridge, Warsaw, Poland

- Performed manual testing of localized game content.
- Identified, documented, and tracked defects using Jira and Azure DevOps.
- Executed regression and functional testing prior to releases.
- Verified UI consistency and localization quality.

Consultant – Customer Support (Ryanair)

May 6, 2025 – May 1, 2026

Armatis Polska Sp. z o.o., Warsaw, Poland

- Maintained high accuracy under pressure, resolving customer issues in a fast-paced, regulated environment.
- Gained experience with aviation operations, booking systems (Skyspeed), and client-facing communication.
- Improved time management and adaptability while working in a multicultural team.

Production Assistant

March 2025 - April 2025

Rosinski Packaging Sp. z o.o., Nowy Dwór Mazowiecki, Mazowieckie, Poland

- Short-term assignment to support personal financial goals while transitioning to aerospace-focused opportunities.

Social Media and Partnerships Manager -

December 5, 2023 - March 31, 2024

LeapFly Jets, Warsaw, Poland -

- Developed tailored content to boost social media engagement.
- Established strategic partnerships and secured new clients.

Tutor

August 10, 2020 - August 10, 2022

Self-Employed, Kanpur, India -

Led group tuition sessions for junior and high school students in Physics, Maths, English, and Computer Science.

Graduate Apprentice - Aerospace Engineering

May 10, 2019 - July 12, 2020

Hindustan Aeronautics Limited, Bangalore, India -

Quality Assurance (Metrology) - Aircraft Research & Design Division

- Conducted quality inspections for projects like HTT-40, LCA-Tejas, Sukhoi SU-35, and UAV.
- Utilised advanced metrology instruments (CMM, profile projectors, callipers, gauges, lab equipment).
- Analysed inspection data to ensure accuracy and identify deviations.
- Prepared detailed reports with inspection findings and corrective action recommendations.
- Collaborated with engineering and manufacturing teams on component specifications.

Production Planning and Method Coordinator - Aero-Engine Research & Design Division

- Led production planning for projects including Hindustan Turbo-Fan Engine, Turbo Starter Unit, and Jaguar Hawk Engine parts.
- Developed detailed routing plans, AutoCAD tool designs, and process optimisation strategies.
- Integrated the IFS-ERP system for smooth material flow, data management, and departmental coordination.
- Managed strategic procurement, vendor relationships, and order coordination to optimise resource utilisation.
- Collaborated with cross-functional teams to translate design specifications into efficient manufacturing processes.
- Coordinated with various departments to align production schedules, conducted vendor meetings to negotiate terms, and prepared detailed procurement documentation.

Intern

June 12, 2017 – July 10, 2017

Hindustan Aeronautics Limited, Kanpur, India -

- Conducted a detailed project study on aircraft engines and propellers of AVRO Aircraft.
- Gained practical experience in the operation and maintenance of AVRO aircraft.

Intern

June 29, 2016 – July 28, 2016

Indira Gandhi Rashtriya Uran Akademi, Amethi, India -

- Gained hands-on experience and an in-depth understanding of maintenance procedures for aircraft.
- Acquired practical knowledge of the operational standards and safety protocols in aviation maintenance.

Education -

- Master of Science, Aerospace Engineering | Warsaw University of Technology | **October 2022 - February 2025**
Warsaw, Poland
Master's Thesis - Study on modelling and control of flapping wing micro aerial vehicles (FWMAVS)
- Bachelor of Technology, Aeronautical Engineering | Dr. A.P.J Abdul Kalam Technical University | **August 2014 - June 2018**
Lucknow, India
Bachelor's Project - Final year project on an Anti-hijacking system for aircraft using Arduino Uno rev-3 and radio frequency tag.

Extra-Curricular / Projects -

- Worked on Arduino to program and build a quadcopter using a wooden frame. And successfully performed a flight test.
- Organised an event “Smile” in the college's annual event.
- Completed an on-the-job training program on Precision Measuring Techniques using a Laser tracker.
- Certification of CATIA V5, AutoCAD, SOLIDWORKS, and ANSYS Workbench.
- Compared experimental data of NACA airfoils with theoretical predictions using the Panel Method in MATLAB and Python.
- Simulated air-fuel mixing and combustion in a jet engine using Ansys Fluent, focusing on flow behaviour and combustion characteristics.
- Project on Microwave Landing System (MLS) using MATLAB, completed as part of a master’s program, and focused on illustrating the working principles of MLS and developing a basic simulation of cockpit instrument indications during aircraft landing.
- Designed and simulated a Black Hornet-inspired mini drone with full system architecture and cost analysis as part of a master’s project.

Publications & Writing

An Unlived Life — Author, 2026

Self-published book exploring love, loss, loneliness, trauma, belonging, and unrealized possibilities.

ISBN: 978-83-983524-0-6

Language -

English	Native-level (C2)
Hindi	Native