

Curriculum Vitae

Prof. JITENDRA SINGH

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Chief Adviser - Aerospace & Defence

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Last Pay (since 2019): Pay Level 14, 7th CPC (JS level, Govt of India)

PROFESSIONAL SUMMARY: Started career in 1997 in Ministry of Defence as a Scientist in DRDO (Group "A" Gazetted), Government of India. Specialization in Aircraft Propulsion & Flight Test Engineering. Worked on 03 categories of aircraft engines i.e. Military (Kaveri), Civil (CFM LEAP) & Helicopters (Ardiden). Experienced in both Military & Civil Aircraft flight testing environment. Only Flight Test Engineer (FTE) in India having participated in Commercial Aircraft Flight Testing & Type Certification i.e. Airbus A320neo with CFM LEAP Engine. Member of SFTE Europe. Widely travelled to 24 Countries. Presently, Commercial Astronaut Candidate at Spaceflight Institute in France.

EDUCATION:

- M.S. Flight Test Engineering, **ISAE SUPAERO Toulouse**, France (Grades = 3.7/4, Excellent)
- M.S. Aerospace Engineering, **TU Delft Netherlands & ETH Zurich Switzerland** (Grades = 8/10)
- B.E. (Hons.) Aeronautical, Punjab Engineering College, **PEC Chandigarh** (Honours, 2nd Rank)

ACADEMIC AWARDS & HONOURS:

- 1st-batch awardee of (DRDO) Aeronautics R&D Board, ARDB National Merit Scholarship, 1993-97
- PEC University Merit Scholarship (Top 10%), Chandigarh, 1993-97
- Netherlands Government's Scholarship (100%) at TU Delft Netherlands, 2005-07
- Internship grant (100%) at ETH Zurich Switzerland, 2006-07
- Holland Alumni Ambassador, TU Delft Netherlands

PROFESSIONAL EXPERIENCE: Key highlights:

- **Program Manager of National Civil Aircraft Development** (Rs 10,000 Crores) program for development of 1st Regional Aircraft for India, CSIR National Aerospace Laboratories, **Govt of India**
- **Scientist DRDO-GTRE**, Ministry of Defence, **Govt of India**
- **Director of Engineering & Quality**, Turbomeca Helicopter Engines India
- **Program Manager** (Core Tech & Turbo Labs), Honeywell International, **Czech Republic**
- **R&D Engineer**, GE Corporate R&D Center, **India / GE Power Systems, USA**

FLIGHT TEST ENGINEERING: Key Highlights

- **ISAE SUPAERO France:** TB20, DR400, Be58, CAP10 Aircraft, France
- **CFM Flight Test Team**, A320neo-LEAP, Airbus Flight Test Centre, Toulouse, France
- **Customer Acceptance Flight:** Airbus A330 for Airlines customer at Airbus France
- **ASTE:** FTE Training & SARAS Flight Test Team at Prototype Test Squadron, ASTE
- **IIT Kanpur:** Flight Experiments on Cessna 172 & Piper Saratoga
- **Full Flight Simulator (Level D):** CAE FFS B737 NG / A320. **TU Delft SIMONA** Research Simulator
- **Demo Flights:** Falcon 7X, 2000, 900 LX, France. Diamond DA62, Diamond Aircraft, Austria

ADJUNCT/ADVISORY Roles:

- **Chief Adviser - Aerospace & Defence**, Laghu Udyog Bharti, Bangalore
- **Hon. Advisor - Aerospace & Defence**, FKCCI, Federation House, Bangalore
- **Technical Advisor - Flight Research**, Mahindra University, Hyderabad
- **Professor of Practice - Aerospace Engineering** RVCE Bangalore
- **Adjunct Faculty**, Punjab Engineering College, Chandigarh

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PUBLICATIONS: Delivered more than 25 keynote address at reputed forum & published:

- **01 Textbook** on Gas Turbine Engines (Delft Press Netherlands, 2008),
- **16 papers** in National / International Conferences
- **04 Detailed Project Reports (DPRs)** to the Government of India (2 classified)

INVITED SPEAKER / AUTHOR

1. **Chief Guest & Keynote Address** to celebrate “return of Astronaut Sunita Williams to Earth”, at PEC Chandigarh, 20 Mar 2025
2. **Chief Guest & Keynote address** on **National Science Day 25**, DEBEL, DRDO, 28 Feb 2025
3. **Chief Guest & Keynote address** on **Engineers’ Week** at Collins Aerospace, Feb 2025
4. **Chief Guest & Keynote address** at **Harrow International School**, Bangalore, Mar 2025
5. **Invited Guest by Italian Embassy**, Space Exploration from the “**Moon to Mars**”, 2024
6. **Author / Speaker**, Flight Test Engineering Methodologies at ISAE SUPAERO France, 35th Society of Flight Test Engineers (European Chapter), **Vienna, Austria**, 2024
7. Invited Expert in National-level Round Table on “**Self-Reliance in Transport Aircraft Manufacturing**” at Manohar Parrikar Institute for Defence Studies & Analysis (MP-IDSA) for roadmap of Civil-Military aircraft manufacturing & MRO hub, Vision 2047 for Viksit Bharat.
8. **Invited Speaker on Flight Test Engineering & Certification** at Honeywell India, 2024
9. **Invited Panel Member on Strategic Materials & Manufacturing Technologies** in Aeronautics, Military Engines, Space & Strategic sectors at CSIR NIIST Trivandrum, 2024
10. **Principal Investigator** of RVCE-HONEYWELL Flight Controls, Academia-Industry project, 2024.
11. **Invited Industry Expert** at CSIR NAL’s in the Aerospace, Electronics, Instrumentation & Strategic Sector, AEISS cluster (13 CSIR Labs), 2024
12. **Session Moderator** (Indian Army, Navy & Air Force), **IMS 2023 International Conference**, Energizing MSME For Indigenization Opportunities Vendor Development, BIEC Bangalore, 2023
13. **Invited Guest, 75th Aeronautical Society of India**, Aerospace & Aviation in 2047, New Delhi 2023,
14. **Invited Speaker** at CSIR Foundation Day, Bharat Mandapam, New Delhi, 2023
15. **Invited Speaker on Flight Testing** at Boeing India, 2023
16. **Session Chair**, Asia Oceanic Systems Engineering International Conference (AOSEC 23), Digital Frontiers in Aerospace & Defence, Complex Engineering at HAL HMA Bangalore, 2023
17. **Invited Speaker** for Airbus “Wings of Wonder” programme 2023
18. **Keynote Speaker**, International MSME Day, Bangalore 2023
19. **Invited Speaker & Jury** at AM 3D AERO Conference organized by Boeing & ASME, 2023
20. **Invited Speaker** at National Conference of Aerospace Engineers, IEI, 2023
21. **Invited Speaker & Jury** at AM 3D AERO Conference organized by Boeing & ASME, 2022
22. **Keynote Speaker**, at 35th National Conference of Aerospace Engineers, Chandigarh 2022
23. **Author**, Flight Testing of Commercial Aircraft with New Turbofan Engines, International Flight Test Seminar, Aircraft & Systems Testing Establishment, ASTE Indian Air Force, 2022
24. **Author** Development of Stratospheric Airship for Strategic Applications, National Conference of Aerospace Engineers, Institution of Engineers India, 2022
25. **Member** of Aeronautics & Space Panel, 2nd Indo French Knowledge Summit, France 2019
26. **Member** of Aeronautics & Space Panel, 1st Indo-French Knowledge Summit New Delhi 2018
27. **Member** of Manuscript Review Committee in International Journal Aircraft Engg and Aerospace Technology for article on “Innovative Exploration of Safe In-Flight Crew Escape Options”, 2016
28. **Author/Speaker** on Fighter Aircraft Characterization at Aero India International Seminar 2015
29. **Invited Speaker** on International Conference of Science & Engineering, Myanmar 2014
30. **Organizer**, Venus Exploration Workshop, IIT Bombay, CNES, ISRO, 2014
31. **Organizer**, Indo-US (NAL-NASA) International workshop on IVHM & Aviation Safety 2012
32. **Author/Speaker-High Altitude Airship for India**, Aero India International Seminar 2011
33. **Author/Speaker-LTA Systems** at National Conference of Aerospace Engineers, Jaipur, 2010
34. **Co-Author** Edited a book on Gas Turbines at TU Delft, Delft Press, The Netherlands, 2008
35. **Spin/Departure tendency** of LCA through CALSPAN Wind Tunnel data, ARDC HAL 1996