**Professor Wg Cdr (Retd)**

 **Kuber**

**Kuber.370473@2freemail.com**

A confident, committed and accomplished Mechanical Engineering professional with more than 20 years of a distinguished career as a commissioned officer of the Indian Air Force& over 09years in the civil sector, in India, Africa & Middle East ; trained technocrat with post-graduation in Business Administration; having rich experience and expertise in providing technical & maintenance services; proficient in teaching Aviation Technical subjects from Grade 12 to Engineering PG level; expert in general administration and HR;

**Preferred Function: Director/ Professor/General Manager**

**Career Objective**: To enhance professional growth by playing varied roles as a leader/team member at senior management level and contributing to the growth of any organisation from Strategic Policy making to Operations & Organisational Development by utilising technical and managerial expertise gained while in the Indian Air Force & abroad.

**Professional Competencies**

* Experience in providing technical maintenance support and developing maintenance processes for transport aircraft.
* Proven excellence in teaching Technical Engineering subjects, to Pilots, Engineers & Technicians (Indian Air Force).
* Expertise in putting in place effective processes for maintaining quality in Aircraft & Armaments Repair and Maintenance (Indian Air Force).
* Expertise in Planning, Scheduling & Budgeting of All types of resources.
* Experience in management of general administration including team of over 350 technicians under field conditions
* Strong proactive leadership with positive attitude and analytical skills and innovative thinking.
* Perseverance and ability to function effectively even under pressure of time and resource constraints.
* Large-scale event management and facility management including VIP visits at remote locations.
* Liaison with Government Public Sector Units, DRDO Labs (India) and other authorities.
* Exceptional inter-personal, communication and negotiation skills.
* Experience in policy making on complex issues with innovative approach
* Project Management Professional PMP
* IELTS score of 7.5 overall in 2016

1. **Aviation Teacher at ADVETI (Abu Dhabi Vocational Engineering Training Institute, Abu Dhabi** (Jan - July 2016)

Training Grade 11 & 12 in all aspects of Aviation (EASA syllabus)

2. **Professor of Armament Engineering at Defence University Engineering College of Ethiopia**

 Aerospace Section of Armament Engineering Department (Sep 2013 to 06 Aug 2015)

Subjects Handled: -

Fluid Machines for III Year Production, Aeronautical, Armament & Motor Vehicle Engineering students, Material Management for IV year, Gas Turbine Engine Construction & Aircraft Propulsion for V & III year Aeronautical students.

Ballistics, Equipment Management for III year & fourth year respectively.

Awarded Letter of Appreciation for Research Paper presented on Space Warfare during annual College Techno-fiesta.

3. **Professor & HOD Aeronautical Department at Park College of Engg& Technology (Anna University, Sep 2011 to April 2013)**

Served as Professor & Head of Aeronautical Department, Park College of Engg & Technology, Under Anna University Chennai, India. A Deemed University (Satya Bhama University Chennai, India) paper setter for Aerodynamics & Propulsion subjects for PG aeronautical engineering Course since September 2011.

Subjects taught at UG /PG level are

(a) Advanced Propulsion for ME - Aero I Semester
(b) Propulsion - I 3rd Semester BE- Aero
(c) Aircraft Rules & Regulations - 5th Semester BE - Aero
(d) Entrepreneurship Development 8th Semester BE-Aero

Conducted World Wind Energy 2020 Conference & Exhibition at COIDISSIA, Coimbatore, South India in 2012 jointly with Other Institutions while as Head of Aeronautical Department at Park College of Engineering Technology Coimbatore India.

**(a) Head of Student & Parent Counselling & Career Guidance for the Department** (2nd year to Final year students).

Achievements were setting up a Feedback system for Aeronautical students for parents on regular basis clearly mentioning gaps in Academic Performance & behavioural traits & highlighting interventions required.

**(b) Head of Department Alumni Association**

Achievements were creation of a system for interaction of alumni with existing students unlike the usual annual gala together. Adoption of a maximum of two engineering students (II to IV year students) by every Alumni who would be mentoring the students on studies, performance, professional development, behavioural traits etc. The alumni for mentoring students were selected based on certain criteria laid down initially.

4**. Knowledge Associate & Evaluator at a KPO in Bangalore (June 2008 to Jun 2010 as a Free Lancer)**

Evaluating On Line Management Assignments and Test papers of U 21 Global University based in Singapore. Students of U 21 Global University include senior IT Professionals of MNCs nominated for various Management courses Like Global Leadership Certificate Course. Some of the modules evaluated are (a) Knowledge Management, (b) OB & Leadership (c) Global and Regional Economics (d) International Business Environment.

5. **Defence Experience (Indian Air Force from 16 Feb 1987 to 31 October 2007)**

 (a) **Defence Institute of Advanced Technology (A Deemed University since 2002)**

As a faculty at Institute of Advanced Technology (Deemed University) later renamed as Defence Institute of Advanced Technology (DIAT) in 2002, taught various modules of armament engineering to Scientists from DRDO and Engineers from the three services. Guiding students with Seminar and Project work and guided at least three students for their M. Tech Thesis. Also functioned as University Paper Setter & Examiner for at least four subjects. As a member of University PG Committee suggested measures to improve student motivation and performance. Subjects taught & UG & PG include 1. Material Science & Technology 2. Instrumentation & Automatic Control 3. Advanced Propulsion 4. Rocket Propulsion 5. Dynamics of Missiles & Projectiles 6. Weapon Systems Design &Testing: 7. Gas Turbine Theory 8. Gas Turbine Construction 9. Project Management 10. Hydraulics & Pneumatics Systems 11. Machine Element Design 12. Weapon Installation Design.

(b) **At the Fixed Wing Training Faculty** (FWTF) Air Force Station Yelahankha, Bangalore was a senior faculty training Flight Engineers (Officers, Technicians) to earn their Flying Brevet. Responsibilities included conducting Classes on aircraft systems, Flying training, cockpit Awareness and simulations and as per syllabus of Flt Engr Training manual. Subjects/modules taken include, Air Field Services, Aircraft Emergency systems, Aircraft CG calculations on loading, Basic Meteorology, Air Transport Regulations for the Air Force etc.

(c) **Operations & Administration**

* As Chief Technical & Liaison Officer at a Premier Depot of IAF at Bangalore (Heading a team of over 60 senior technical personnel including two senior engineering Officers) was responsible for induction of airborne components including Engine and Air Frames for Repair, Overhaul and Defect Investigation with various Public Sector Undertakings like HAL, BEML and BEL Developed Processes for timely intervention of agencies for respective actions to reduce downtime of components under repair.
* Represented the Indian Air Force in all Technical Defect Investigations as part of joint coordinated effort from OEM, Airworthiness and Director General Aeronautical Quality Assurance Ministry of Defence, India (DGAQA).
* Participated in various Technical deliberations during the Initial Induction of Advanced Light Helicopter (ALH) into the Air Force including technical discussions with Air Worthiness bodies like CEMILAC& RCMA (Airworthiness bodies for Military aviation in India) for smooth induction.
* As Officer in Charge of Air Armament Inspection Wing (AAIW) (A total of 30 employees including one class an Officer) at Nagpur provided quality assurance coverage for all components manufactured by Ordnance Factory Nagpur, India. Functioned as Technical Consultant for Ordnance Factory for Component Design of Armament systems like Bombs, Rockets & Missiles. Deeply involved in indigenisation of imported components by Reverse Engineering Methods. Planning, Budgeting resources like Financial, Technical and Human Resources to carry out the annual assigned task. Carried out quarterly review of tasks to bridge gap between planning and actual execution. Carried out Process review of Quality methods to enhance productivity of the Inspection unit
* As Senior Technical Officer/ Engineering Officer of an Operating Transport Aircraft (Antonov -32) Squadron in India was responsible for the Maintenance of a fleet of 12 aircraft with a team of about 350 technicians. Responsibilities included maintenance schedule planning for aircraft and other airborne components, Snag rectification, Defect investigation and all other ground activities for operation of the squadron. Developed processes for smooth maintenance and constant monitoring of state of the fleet
* As a Flight Engineer Leader (Heading a team of 20 Flt Engineers) at an operational Transport (Antonov -32) Airbase was a keen and avid Flt Engineer & Cockpit crew and logged around **640 hours of flying on a Russian Transport Aircraft An-32** in a little over one and half years plus and took active part in three inter-services Air Drop Operational Exercises. Duties included training of fresh Flight Engineers posted to the squadron and preparing them for Aircrew Examination Board Examinations (AEB) and achieving operational Flying status. Assisting pilots in Flight-testing of Aircraft received after II, III & IV-line servicing or after repair of any major defect of aircraft.

(d) **Project Management**

* One of the very first projects was as a Project Leader (Team size over 200) to increase the squadron fleet aircraft serviceability state from a low average to an acceptable percentage with increase in serviceability of about at least 20 percentage points. With one engineering Officer and around 200 technicians were given 24 weeks to achieve the same. Successfully completed the project and laid down processes to maintain the same high serviceability states
* The second main project was as Chief Project Coordinator for the 1997 ***International Air show at Air Force Station Yelahankha Bangalore***, India with a team size of around 20 officers Planning, Executing & Managing various infrastructure resources, Runway Mgt, Airfield resources, flying planning, and entire smooth conduct of the air show. Duration 24 Weeks
* Designated Project Leader (Team size over 12) of a Training Project at Air Force Technical College Jallahalli, Bangalore, India to establish new training standards for junior &mid-level Aeronautical Engineers both Mechanical and Electronics branches of the Indian Air Force and produce a suitable training module within 6 weeks. The modules prepared were for the Basic Professional Knowledge Course (BPKC) and Advanced Professional Knowledge Course (APKC). The modules were prepared as per guidelines & Syllabus given by HQ Training Command Indian Air Force for the Aeronautical Engineers of the Air Force

**ACADEMIA**

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| Sl No | Name of Examination | Name of School /Institution | Board/University | Year of Passing | Marks Percentage/Class |
| 1. | SSLC | Madras Christian College High School, Chetpet, Madras, India | Tamilnadu BoardIndia | 1979 | 74.5 % First Class |
| 2. | HSC | Madras Christian College High School, Chetpet, Madras, India | Tamilnadu BoardIndia | 1981 | 77.7 % Distinction |
| 3. | B.E.(Mechanical) | Government College of Engineering, Salem, Tamilnadu, India | Madras UniversityIndia | 1985 | 68.5 % First Class |
| 4. | M.E. (Mechanical)Air Armament | Institute of Armament Technology, Girinagar, Pune, India | Pune UniversityIndia | 1998 | 72.3 % Distinction |
| 5. | M.Sc. (Defence & Strategic Studies) | Defence Services Staff College, Wellington, Tamilnadu, India | Madras UniversityIndia | 2002 | 69.6% First Class |
| 6. | PGDBA | Annamalai University  | Annamalai UniversityIndia | 2005 | 58.3 % Second Class |

**Professional Training Attended**

* **Attended a One and half year Aeronautical Engineering course at Air Force Technical College Jallahalli Bangalore, India on joining the Indian Air Force.**
* Attended courses on Aircraft Systems (Six months Engineers course on Russian Transport aircraft systems to be certified to work on the aircraft independently)
* Attended higher Management Development programmes for senior officers.
* Training on Transport Aircraft. (Six months Flight Engineers course on Russian transport aircraft to be certified as Flight Engineer)
* Instructional training for Technical Instructor. (Three Months course to train as an Aviation Engineer Instructor)
* Quality assurance Course for Inspection of Airborne Stores. (Three months’ course on QAS for airborne items & equipment to be certified as an QAS Inspector)
* Certified Internal Auditor for ISO 9001-2008
* Certified Six Sigma Green Belt (RABQSA)
* Certified Project Management Professional PMP
* Basic and Advanced Training on Armament Systems. (Attended courses on Aircraft Armaments like Bombs, Rockets & Missiles (Russian & Western Origin) including bomb demolition of Expired armaments)
* **Attended Flight Safety and Maintenance Course.**
* Co-authored a technical paper titled “Theoretical& Experimental Studies on Vibration & Damping of Fibre-Reinforced Cantilever Laminates”. (The paper appeared in Indian Defence Science Journal, Vol 50, No 3, July 2000, pp 325-333) (Software used Nastran &Mat lab for experimental validation of FEM model)