



# SHARIQ MASOOD

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Highly experienced aerospace and avionics professional with over 25 years of expertise in system design, development, integration, and management. Proven track record in leading complex projects, fostering innovation, and driving operational excellence in military and defense industries.

## EXPERIENCE

**NOV,2023 – JUL,2024**

### **PROJECT DIRECTOR, KAMRA TECHNOLOGY SQUARE (KTS), NASTP**

Market & operationalized newly developed KTS to national / international aerospace companies to enable establishment of National Aerospace Cluster at Kamra. Task was quite challenging, keeping in view remote location of Kamra as compared to main cities. However, utilizing smart & focused strategy, concerted efforts and team work, 80% occupancy of KTS has been achieved within span of 08 months.

**JUN,2023 – NOV,2023**

### **DEPUTY MANAGING DIRECTOR, APF, PAC KAMRA**

Headed multiple departments of APF involved in

- Indigenous design & development of avionics systems for PAF airborne platforms
- Augmentation operational capability of airborne platforms through integrating new / upgraded avionics & weapons systems
- Production of 18+ avionics systems for serially produced aircrafts at PAC Kamra
- Maintenance, Repair & Overhaul of 20+ avionics systems operational on PAF fleet

**AUG,2020 – MAY,2023**

### **CHIEF ENGINEER DESIGN & DEV GROUP, APF, PAC KAMRA**

Lead AS-9100D certified R&D department involved in design, development, qualification & airworthiness certification of avionic systems for airborne platforms. Form, fit and functional replacement of multiple avionics systems onboard PAF fighter platforms were achieved in highly time constrained environment at fraction of the cost of foreign OEM. The developed systems were subsequently serially produced for the PAF fighter fleet resulting in accruing long term benefits for the organization over their entire life cycle. Salient products include

- Avionics Activation Panel (AAP)
- Upward Front Control Panel (UFCP)
- Digital Audio Control System (DACS)
- Multi-function Colored Display (MFCD)
- Data Transfer Unit (DTU)

Initiated multiple development projects including

- TACAN Audio Control (TAC) for trainer aircraft
- Technology demonstration of Missile Approach Warning System (MAWS)

Spearheaded Prototype Mod, Integration and flight trials of IFF transponder on Pak Army Helos including Bell-412, FENNEC, MI-17 & MI-35 Helos. Submitted multiple feasibility studies / technical and commercial proposals to undertake development of

- Pilot Display Unit (PDU)
- Aviation Clock
- Wireless Tele-brief

**AUG,2019 – AUG,2020**

**CHIEF ENGINEER PRODUCTION SUPPORT GROUP, APF, PAC KAMRA**

Salient tasks executed includes

- Coordination and Control of multiple avionics OEMs (both local and foreign origin) for timely production of Avionics Suites for PAF fighter fleet.
- Analyzing technical & commercial proposals of multiple OEMs (both local and foreign origin) for selecting advanced, reliable and cost-effective Avionics Suite for a MALE UAV Project
- Serial production of Ground Support Equipment and Testers for fighter aircraft

**JAN,2018 –JUL,2019**

**DIRECTOR TECHNICAL SERVICES, APF, PAC KAMRA**

Salient tasks executed includes

- Being Staff officer to Managing Director (MD), managed & controlled multifaceted activities of the factory on behalf of MD
- Administration of VVIP visits, cultural events, social gatherings etc.
- Prepared multiple factory level presentations and written a service paper “Strategic Management of Defense Industry” for Center of Aerospace and Security Studies (CASS)

**MAR,2015 – DEC,2017**

**DEPUTY CHIEF ENGINEER RIG DEV, AVIONICS PRODUCTION FACTORY**

Led technical team responsible for Software & Hardware upgrade of Avionics Integration Rig.

Salient tasks executed includes

- Developed multiple software simulators for avionics rig which enabled development of Operational Flight Program (OFP) for mission computer
- Developed avionics stimulators (Including TACAN, ILS, IFF, Radar & INS) for avionics rig in collaboration with local industry
- Serial production of testers for flight critical systems like FCS & Engine to support PAF operations

**JAN,2010 – MAR,2015**

**PROGRAM MANAGER SOFTWARE DEV, AVIONICS PRODUCTION FACTORY**

Salient tasks executed includes

- Upgradation of main simulation software for avionics rig which enabled development of Operational Flight Program (OFP) for mission computer
- Developed datalink software stimulator for datalink enabled airborne Radio operation inside lab environment

- Form fit and functional replacement of testers used by field units to verify onboard flight critical systems (FCS & Engine) at fraction of the cost of foreign OEM to support PAF operations

**DEC,2008 – JAN,2010**

**MEMBER AVIONICS DEV, CADI, CHINA**

Participated in avionics development program of fighter aircraft at vendor premises. Salient tasks include

- Validation of user requirements / POP implementation at avionics integration rig before formal release to the customer
- Handle Configuration Management issues between avionics integration development teams of customer & vendor
- Vetting of technical documents released by the vendor
- Liaison with multiple vendors for timely development of avionics systems

**NOV,2006 – DEC,2008**

**PROGRAM MANAGER SOFTWARE DEV, APF, PAC KAMRA**

Salient tasks include

- Acceptance of Avionics Integration rig after commissioning by the vendor
- Upgradation of main simulation software for avionics rig which enabled development of Operational Flight Program (OFP) for mission computer
- Development of avionics systems software simulators

**MAR,2004 – NOV,2006**

**AVIONICS INTEGRATION TECH ACQUISITION, CADI, CHINA**

Part of the team went to vendor premises for acquisition of avionics integration technology.

Scope of training include

- Avionics System Design
- Systems Engineering
- Avionics Software Development & Verification
- Avionics Rig Development
- Systems Integration & Acceptance test in Avionics Rig
- Onboard Integration & Test

**MAR,2003 – MAR,2004**

**INSTRUCTOR, SCHOOL OF ELECTRONICS, KORANGI, KARACHI**

Training in charge of Radio / Radar technicians inducted in School of Electronics (SoE). Salient work includes

- Preparation of annual training plan
- Weekly Scheduling
- Lecture Delivery
- Quiz & Exams
- Final Year Projects
- Junior Instructors Assessment
- Curriculum Review

**SEP,2002 – FEB,2003**

**OFFICER COMMANDING ENGG WING, PAF BASE JACOBABAD**

Responsible for base-wide engineering activities concerning Air Nav Aids, Communication, logistics, Mechanical fleet and POL. Salient work includes

- Periodic / Scheduled Maintenance
- Un-Scheduled Maintenance
- Budget forecasting & Funds Management
- Logistics Management
- Quality Control / Quality Assurance

**AUG,1999 – MAR,2003**

**OFFICER INCHARGE AUTOMATION SYSTEM, AIR DEFENCE HEADQUARTER**

Maintenance of Hughes Automation System responsible for monitoring & tracking of aerial targets inside Pakistan Airspace. Salient work includes

- Periodic / Scheduled Maintenance
- Un-Scheduled Maintenance
- Personnel On Job Training
- Funds Forecasting
- Bench Stock / Pre-issue / Spares components procurement
- Quality Control / Quality Assurance

**MAY,1996 – AUG,1999**

**OFFICER INCHARGE ELECTRONICS WARFARE SYSTEM, PAKISTAN AIR FORCE**

Maintenance & upgrade of Electronics Warfare System. Salient work includes

- Periodic / Scheduled Maintenance
- Upgradation of Software
- Supervisor Training
- Funds Forecasting
- Bench Stock / Pre-issue / Spares components procurement
- Quality Control / Quality Assurance

## **EDUCATION**

**SEPTEMBER 2013**

**MS COMPUTER ENGINEERING, UET, TAXILA**

Obtained CGPA 3.75 / 4.00

Thesis work include developing social network analysis solutions using Hadoop Map Reduce Framework

**SEPTEMBER 2014**

**MS WAR STUDIES, NDU, ISLAMABAD**

**DECEMBER 1995**

**BE AVIONICS, COLLEGE OF AERONAUTICAL ENGINEERING, NUST**

Obtained CGPA 3.08 / 4.00

Final year project related to development of hardware-based encryption / decryption solution for telephonic communication.

## **SKILLS**

- Avionics System Design & Development
- Avionics Systems Integration
- Integration Rig Design & Development
- Military Standard Compliance
- AS-9100D / DO-178B understanding
- Problem Solving & decision making
- Project Management
- Contracts Management
- Tech Documentation
- Microsoft Certified for Designing & Implementing Desktop & Distributed Applications with VB 6.0 (Jul, 2000)
- Microsoft Certified for Designing & Implementing Databases with SQL Server 7.0 (Apr, 2001)
- Microsoft Certified Database Administrator (Apr, 2001)
- C / C++ / Java / Visual Basic / LabVIEW /VMS Fortran / Python

## **PROFESSIONAL AWARDS**

- Chief of Air Staff Commendation Certificate (Mar, 2013)
- Chief of Air Staff Commendation Certificate (Aug, 2014)
- Professional Excellence Badge (Mar, 2016)
- Tamgha-e-Imtiaz Military (Mar, 2018)

## **EXTRA CURRICULAR ACTIVITIES**

- President Mess Committee Officers Club, Pakistan Aeronautical Complex (Mar,2021– Aug,2023)

### **Sports**

- Tennis Team Captain, Pakistan Aeronautical Complex, Kamra (Aug,2020 – Sep,2023)
- Member of Squash Team, PAF Base Sargodha (May,1997 – Aug,1999)
- Table Tennis Team Captain, St Judes High School (Sep, 1983 – Nov, 1985)