

## Nilesh P Khairnar

✉ nil12khairnar@gmail.com  
☎ +91-8106791932



### Key Skills

Quality Management & Control



Process Enhancements



Project Management



Human Safety Management



SAF (Scale Agile Framework)



Software Development/ Verification



Audits & Inspection



Supplier Evaluation/Assessment



Root Cause Analysis



**Certified SAFs 4.6 SCRUM Master**; targeting senior level assignments in **Project Management** with a leading organization of repute, preferably across **Aerospace/Automotive/Medical Instrumentation/Embedded industry** in **Hyderabad/Pune/Baroda/Bangalore**



### Profile Summary

- ✿ **Certified Lead Auditors for AS9100C & AS9100D** with an experience of **over 12 years** in **Quality Management & Control, Inspection & Auditing, Project Management, Aerospace Software Development Life Cycle and Tool Qualification** across **Aerospace industry**
- ✿ **Capabilities in managing Quality Management Systems** which includes coordinating quality assurance programs, developing quality control procedures, making sure customer demands are respected and training other employees with regard to quality management issues; facilitated implementation of **ISO, AS9100 and DO-178 Standards across Collins Aerospace (Heritage Rockwell Collins)**
- ✿ Hands-on expertise in Software Development Life Cycle entailing DO-178B/C requirements & its supplements (**DO-330, DO-331, DO-332 & DO-333**)
- ✿ Expertise in managing the **project baselines**; monitored projects with respect to cost, resource deployment, time overruns and quality compliance to ensure satisfactory execution of projects; nominated for **Engineer of the Year (Category-Corporate Level) in 2017**
- ✿ Competency in devising significant solutions for maintaining sound safety conditions with skills in the implementation and maintenance of quality standards; possess working knowledge of the **Avionics Domain** which includes Cockpit Display's, Engine Product Line, Datalink, Panels Software, Information Management Onboarding and Platform Software
- ✿ Professional excellence in undertaking process improvements initiatives in manufacturing/production to effectively utilize equipment and achieve daily targets; gained knowledge about TSO, TC, PMA & STC certification process
- ✿ A strategic planner with skills in ensuring that appropriate strategies are in place and are acted upon according to the priorities; resourceful in ensuring sufficient human and technological resources are available to carry these
- ✿ Expert in ISO 13485:2016 QMS implementation and certification.
- ✿ Ensuring Compliance with Medical Device standards ISO 14971 Risk Management and IEC 62304 Software Safety Classification.
- ✿ Expert in Standards Operating Procedure (SOP) for Medical Device company.

## Timeline



## Notable Accomplishments Across the Career

- 🔧 Nominated for:
  - Engineer of the Year (Category-Corporate Level) in 2017
  - Valuable Quality Assurances work (twice) in Design Assurance Central (Quality) Department-Corporate Level
- 🔧 Titled as Best Support Team Member in the yearly 2012 Annual IDC Award
- 🔧 Bagged 9 Pat on Back Award at Rockwell Collins for excellent performance
- 🔧 Secured the Quadrant Award in FY'16-17 for taking initiatives such as supporting 777x SOI2 Boeing AR
- 🔧 Created White Paper and Deviation Analysis Reports on Quality Findings with Engineering team
- 🔧 Gained working experience with DER, Boeing ARs and Transport Canada DER
- 🔧 Recorded zero non-compliance in last 3 external AS9100/QMS audits
- 🔧 Conducted trainings on AS9115 and AS9145 (APQP)
- 🔧 Gained excellent domain expertise in Engine and Display units
- 🔧 Implemented and certified Conformis India LLP (medical device) with ISO 13485:2016 QMS.

## Work Experience

### **Jun'11-till date with Collins Aerospace, Hyderabad as Project Lead**

#### **Key Result Areas:**

- 🔧 Monitoring product and process quality of the projects; supervising Design Assurance Control Team
- 🔧 Leading a team of 10 engineers
- 🔧 Leading Lean, Continuous Improvement and Quality Council Team
- 🔧 Spearheading a team of 13 SQE members at various capacities
- 🔧 Testing Safety Critical System Applications related to Aerospace Engineering
- 🔧 Managing supplier evaluation audits by customers, DO178 SOI audits by DERs and certification and surveillance audits of ISO 9001, AS9100
- 🔧 Monitoring and reporting project metrics based on Quality Systems
- 🔧 Conducting various audits (Mock Audits, Desk Audits, and Spot Audits) within organization to meet project needs and customer satisfaction
- 🔧 Networking with DER, TCR and AR's on SOIs findings/observations
- 🔧 Leading projects which includes estimating, planning & scheduling, performing risk analysis, managing cost and scheduling performance index (using Earned Value Technique & EVM), organizing daily status meeting with the US counterparts and presenting periodic dashboard reports on the project, future opportunities and client issues
- 🔧 Coordinating with Boeing ARs on SOI findings
- 🔧 Completing Software FAI checklist for Boeing program and interacting with Boeing SQA and AR for top level parts approval during FAI review
- 🔧 Organizing Supplier Assessments, Oversight and Audits; ensuring adherence to DO-178B/C for internal process/product audit
- 🔧 Organizing regular meeting with RC US Quality Manager/Team and getting the feedback on quality of delivery; monitoring team competency of engineering as well quality team
- 🔧 Performing initial technical feasibility study on upcoming projects and providing recommendations; participating in project bid activity for DAC Team
- 🔧 Representing India DAC Team during Infrastructure Advisory Committee (IAC) meetings
- 🔧 Ensuring that quality assessments records and conformity reports are on track

- ☛ Training the development teams on the quality awareness and process awareness
- ☛ Performing SOI thread audits, conducting review discussion and DER interaction
- ☛ Supporting Engineering Team with product certification and conducting SOI Mock audit internally
- ☛ Ensuring peer reviews and project compliance with respect to regulatory, customer and company policies/procedure
- ☛ Planning TRR reviews before RFS/FQT and DER interaction based on SOI audit and findings
- ☛ Formulating planning documents (SDP, PSAC, Standard, SAS, FAI & TRR)
- ☛ Witnessing software load set during Formal Qualification Test and Load Audit
- ☛ Providing corrective action and RCA on quality related issues
- ☛ Utilizing PDCA/PDSA approach and establishing SQAP

**Apr'07-Jun'11 with AK Aerotek Software Pvt. Ltd., Bangalore as Senior Software Engineer**

## Certifications

- ☛ AS9100D Internal Lead Auditor
- ☛ TQM Practitioner
- ☛ Six Sigma DMAIC Methodologies
- ☛ SAFs 4.6 Scrum Master
- ☛ Brainbench SQE Certified

## IT Skills

**Software Languages:** C, C++, Ada 83/95, Python Basic  
**Tools:** Quality Assurance Tools, Matlab & Simulink, RTRT, ALM Tools, LDRA Testbed, Cantata, Cantata++, VectorCast, Rockwell in-house Tools, SCM Tools and Debugger  
**IDEs:** MultiIDE, Code Composer and RC VISTA, Squish IDE  
**Operating System:** RTOS, Windows XP/7, RC Linux OS 2.2.2, Vx Works  
**Protocol:** ARINC 429 and Arinc Graphic Server 661  
**Standards:** DO-178B/C, ARP4754A, ABD100/200, Boeing D6 and RC TCP AS9100C/D,  
**Configuration Tools:** PVCS, VSS, DOOR's, SVN, CQ, SQE database, ALM tools (JIRA, Crucible, Bamboo, Fisheye, JAMA, Review Center, Confluence and Wiki)  
**Testing:** Hardware-Software Integration Testing, Software Integration Testing, Module Testing, Unit and Regression Testing  
**Configuration Management:** CC1 and CC2; SVN, DOORs, Clear Quest, Peer Review Tool, Product Data Management, JIRA and JAMA, Perforce

## Education

- ☛ M.Tech. in Quality Management from Birla Institute of Technology and Science, Pilani (BITS Pilani) in 2021
- ☛ B.E. in Electronics and Tele-Communication from North Maharashtra University in 2006
- Other Course:**
- ☛ Certification Course in Embedded System Design from Pune University (ICIT) in 2007

## Onsite Visits

- ☛ Apr'10-Sep'10 to Worcestershire UK for Trent 900 Integration work
- ☛ Jun'12-Jul'12 to Cedar Rapids, Iowa USA for EEJ SOI1
- ☛ May'14-Jul'14 to Cedar Rapids, Iowa USA for 737 MAX SOI2
- ☛ Nov'16-May'17 to Cedar Rapids, Iowa USA for Boeing External Audit
- ☛ Mar'20-Oct'20 to Cedar Rapids, Iowa USA for Boeing 777x, 737 MAX SOI 3 Audit and Panels BRS TSO certification

## Personal Detail

**Date of Birth:** 12<sup>th</sup> September 1983 | **Languages Known:** English, Hindi and Marathi  
**Address:** 104/RC Green Leaves, Vanayaknagar Chandanagar Hyderabad

(please refer to the annexure for project details)

# ANNEXURE

**Title:** 777x DCA and PSW / 767 Retrofits  
**Client:** Boeing  
**Duration:** 2 year  
**Tools:** Matlab & Simulink, Ocelot and LDRA  
**Language:** C, C++  
**Role:** Sr. Project Lead- Software (Quality)

**Key Result Areas:**

- Acted as Project Lead and presented Quality Assessment Checklist to Boeing AR during SOI Audits
- Worked as a Core Member in SOI/FAI Audit, Defect Collection and Analysis and reported the same to the top management
- Conducted supplier assessment and oversight process assessment
- Participated in peer review and process & product audit
- Conducted RCA and Tool Qualification Review
- Organized Thread Review prior to Boeing SOI audit with AR

**Title:** 737 MDS (Max Display System)  
**Client:** Boeing  
**Duration:** 4 year  
**Tools:** Matlab & Simulink, Ocelot and LDRA  
**Language:** C, C++  
**Role:** Project Lead- Software (Quality)

**Key Result Areas:**

- Acted as Project Lead and conducted MDS Review and Quality Check before DER review
- Worked as Core member in SOI/FAI Audit, Defect Collection and Analysis and reported the same to the top management
- Participated in SOI Audit, Supplier Assessment and Oversight Process Assessment
- Ensured DER/Customer Interaction

**Title:** Standby Engine Instrument (SEI)  
**Client:** HAL  
**Duration:** 9 months  
**Tools:** Cantata++, Code Composer V.3.3  
**Language:** C  
**Role:** Sr. Software Engineer

**Description:** SEI is a display system that is used as a backup in case the main engine display system fails. The SEI will interface with engine Full Authority Digital Electronic Controller (FADEC) via ARINC 429 and will generate engine display formats over a color Liquid Crystal Display (LCD) as well as incorporating logic and alerts in various levels; Scope of work: Development of code with respect to SRS in compliance with the DO178B Level A requirements on target system.

**Role:** Worked as a developer and reviewer and managed review of test cases

**Title:** EIU (Engine Interface Unit)  
**Client:** AMETEK AEROSPACE  
**Tools:** Code Composer  
**Language:** C++

**Title:** TRENT - 1000  
**Client:** Resource Engineering Project (UK)  
**Tools:** ES37 (Developed by Rolls-Royce)  
**Language:** C and Ada 95