*Krishna Sahi G*

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*+91 9951118188, +9121210999*

## PROFESSIONAL SUMMARY:

* 6.8 years of experience in the Manfacturing, Design & Stress analysis, MRB (Concessions – Manfacturing support) of aircraft components
* **9 months of onsite experience (GKN Aerospace, Osborne Engineering Centre, IOW-United Kingdom)**
* Hands on experience on global aircrafts Bombardier, Airbus, Boeing, M-Jet and Gulfstream projects.
* Good knowledge on airframe static stress analysis techniques including hand calculation methods (use of Mathcad), FEA related and Analytical skills.
* Study drawings, Interact with customers on clarifications / issues. Study analyse and answer technical drawings, schematics, or computer-generated reports.
* Good theoretical knowledge on Aircraft Structures, Mechanics of Materials and process planning.
* Excellent communication and presentation skills as well as vibrant team player, also comfortable in working individually. Excellent work ethics, self-motivated and quick learner.
* Hands on experience on MRB bombardier concessions & propose new repair/solutions to customer.

## PROFESSIONAL EXPERIENCE

CYIENT LTD : 17th January 2013 to till date

###### Designation : Senior Stress Engineer

## ACADEMIC PROFILE

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| --- | --- | --- | --- | --- | --- |
| **Examination** | **Discipline** | **School** | **Board** | **Year Of Passing** | **Percentage** |
| Graduation | B.Tech. (Mechanical Engineering) | Sri Venkateswara University Campus, Tirupathi, | Andhra Pradesh. | 2012 | **76.30** |
| Intermediate Board of Examination | 12th Standard | Sri Chaitanya Junior College | Andhra Pradesh. | 2008 | **94.60** |
| Secondary School Certificate Examination | 10th Standard | Amaleswari Vidhya Nikethan | Andhra Pradesh. | 2006 | **96.85** |

## TRAININGS ATTENDED

* BESt certification at Cyient Ltd, Hyderabad.
* Undergone aircraft structures and FEM training at Cyient Ltd, Hyderabad
* Undergone ACD4.0, Stress dossier tools training at Cyient Ltd, Hyderabad
* Undergone ISAMI, AIRBUS SAP, WINDCHILL training at Cyient Ltd, Hyderabad
* Undergone training on Composites and Classical Laminate Theory.
* Attended MSC E-learning classes for CAE Softwares
* Attended trainings on Airbus, Bombardier and boeing in house tools at CYIENT

**Project : Bombardier G7000/8000**

**Client** **: Vought Aerostructures, Dallas, USA**

**Role** **: Team member**

**Duration : 6 months (till date)**

**Description:**

The scope of the project is to reanalyse Wing and its components with MRB Task. Static, Fatigue & DT analysis for all types of defects are analysed.

**Project : EMBRAER - COMPOSITES**

**Client** **: Vought Aerostructures, Dallas, USA**

**Role** **: Team member**

**Duration : 3 months**

**Description:**

The scope of the project is to reanalyse Rudder/Elevator and its components with MRB Task. Static, Fatigue & DT analysis for all types of defects are analysed.

**Project at Onsite : Airbus and Non Airbus Concessions**

**Client** **: GKN Aerospace Engineering Services, Isle of wight, UK**

**Role** **: Onsite Coordinator, Team member and checker**

**Duration : 7 months at onsite 6 months at offshore**

**Description:**

The scope of the project is to analyse the primary and secondary structures (composites and metallics) components of wing, Engine Cowl, rudder and elevators which have some defects after manufacturing. The defects are mostly of Wrinkles, Impact Damage, Waves, Test pieses, Gaps, Oversize hole, Alternative Fastener, Delamination, Voids, Inclusion, Surface depression, Profile Tolerance, and Material change type etc., This requires a total understanding of the analysis process of these components and preparing the stress justification both in terms of acceptance of Static and Fatigue strength of part.

**Responsibilities:**

* Preparation of standard AIRBUS & Bombardier Concession justification reports based on Hand calculation approach as well as in AIRBUS tool (ISAMI versions) in both metallic & composite components of A350 XWB-900, A400M,A380 & A330.
* Understanding the non-conformances and assessing accordingly.
* Work closely with Design Engineers, assisting in the structural design process, to provide customers with fast and effective engineering solutions.
* Carry out stress and/or fatigue calculations using classical methods to check the structural integrity of the non-conformity and any proposed corrective action. And ensure fatigue and damage tolerance requirements are met.
* Produce formal calculation reports to support concession approval process.
* Understand evolving customer standards and airworthiness requirements to continuously improve repairs solutions.
* Maintain concession tracking databases to improve &/or benefit from lessons learnt & increase efficiency.
* Measure own performance against KPI's to ensure project is delivered to cost.

**Project**  **: A350/A400M Spar Concessions**

**Client** **: GKN Aerospace Engineering Services, Western Approach, UK**

**Role** **: Team member and direct interface with client**

**Duration : 5 months**

**Description:**

* The scope of the project is to find out location of the defect (Over sizing, NDT defects, Delamination, Wrinkles etc.) on the component and check the strength of the component in the presence of the non-conformance.
* As of part of documentation, concession reports are developed in line with Airbus Standards.

**Responsibilities**

* Involved in preparing the stress Justification.
* Taking complete responsibility of package and review of rejection comments from the customer and fixing the justification.
* Involved in mitigation and proposing new concepts to pass the justification.

**Project : A350–1000 Rear Spar C–Maturity DFM Dossier Preparation**

**Client : GKN Aerospace Engineering Services, Bristol, UK**

**Role : Team member and direct interface with client**

**Duration : 6 months**

**Description:**

* The scope of the project is to validate Rear spar structure (Generic) and components (Non Generic) attached to Spar for static, Fatigue and Damage tolerance evaluation. The work Comprises analyzing rear spar (composite) at corner, fastener hole and other locations for criticality using Airbus methodologies.
* The scope of the project is also to prepare Stress Dossier supporting the release of Design for Manufacturing for Rear spar structure (Generic) and components (Non-Generic) attached to Spar for static, Fatigue and Damage tolerance evaluation. To find the critical location for each rear spar (composite) at corner, fastener hole and other locations for criticality using Airbus methodologies.

**Responsibilities:**

* Involved in preparing the certification documentation.
* Carried out the metallic analysis for Root Joint metallic components using Non ISAMI analysis (Hand calculation) and ISAMI analysis. The Root Joint connects the Rear Spar to the Centre Wing Box via the Horizontal Cruciform and Vertical Cruciform, the Triform and the External Strap. The analyses performed for Root Joint Metallic components are Joggle, Inter-bolt buckling, combined axial load & bending, Net area and bending (Vonmises stress), ligament bending, Bolt shear and Tension and ISAMI (ISAMI 8.1.0\_a350 Metallic Filled Hole (MFH) module) analysis. The ISAMI v8.1.0\_a350 Metallic Filled Hole module calculates the RFs:

**Project : A400M C Section Spar and its attachments Stress analysis**

**Client : GKN Aerospace Engineering Services, Bristol, UK**

**Role : Team member**

**Duration : 8 months**

**Description:**

The scope of the project is to analyze the composite Front and Rear Spar at all the interfaces for loads. Work involved is analyzing the Spar for Laminate assessments and fasteners criticality using Airbus methodologies for Check stress in spreadsheets. Spar FEM model (CBJT and Open hole) checks are performed according to AIRBUS standards.

**Project : A400M Spar Checkstress - Static Stress Analysis**

**Client : GKN Aerospace Engineering Services, Isle Of Wight, UK**

**Role : Team member**

**Duration : 10 months**

**Description:**

Scope of the project is to coordinate and execute the A400M Spar Checkstress – Static Stress Analysis between GKN and Cyient Ltd team for MSN006 Checkstress Loads. Work involved is to analyzing the Rib Post (FS & RS), Splice Joint (FS & RS), Spar at Rib Post Interface (FS & RS) and Spar at Splice Joint (FS & RS), this work also involved the preparation of Standalone and Interface stress dossiers having the calculations for Metallic and composite (Composite Bolted Joint strength and Open hole analysis analyses and loads considered are checkstress ICAD Loads and Interface loads.

## Professional Achievements:

* Received POB award thrice in CYIENT LTD from Multisite Concession Stress team, A350 Wingtip-Winglet Composite stress Team and A400M Spar to cover bolting stress analysis Team.
* Received “Associate of month”, for excellent work on disposing concessions.
* Received “Team of the Month Award”, for GKN Aerospace Cowes Supplier Performance= 100%
* Received “Team of the Month Award”, for Excellent Support for MSN159, Spar Delivery During Feb month end
* Received “Team of the Month Award”, for excellent support in A350 C-Mat analysis.
* Received “Team of the Month Award”, for Airbus A350 XWB Wingtip/Winglet Struct.
* Received “Team of the Month Award”, for “A400M VPB Volume Dossier.”
* Received “Team of the Month Award”, for “Advancement in processing the concessions that is recognized by the customer & holiday support”
* Received “BRONZE TEAM” award for Bombardier MRB execution for reducing turn around time from 5 to 2 days.

## PERSONAL PROFILE

Name : Krishna Sahi Gujjarlamudi

Date of Birth : 29-Aug-1991

Sex : Female

Nationality : INDIAN

Address : House No: 26-226/1, Near Telephone Exchange, Buttai pet, Machilipatnam-521001, Krishna District, Andhra Pradesh

Passport : Passport No: K3150351 (Valid up to: 22/04/2022)

Languages known : English, Telugu, Tamil and Hindi