

# NAGARAJAN SEKAR

Assistant Consultant - Mechanical Engineer - TCS -Chennai

Exp: 16+ | PDE | Turbine | Aviation | Oil & Gas | Automotive | ASME Y14.5 | ISO 1101

UG NX|CREO|SOLIDWORKS|AUTO CAD|Master CAM|ANSYS|Enovia

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DOB:29-Mar-1983 | Passport: N9681818|Expiry:25-Apr-2026|Married

## Experience

**Tata Consultancy Services - Assistant Consultant -Sep 2011 to till date**

**Renewable Energy (2017 to till date) – Electromechanical (GE – wind offshore turbine)**

- **Design visualization efforts with Siemens NX CAD models** and essential component and assembly details to explore multiple design options.
- Developing innovative designs to meet all requirements for performance, reliability, cost, and manufacturability.
- Developing engineering design concepts for components and electromechanical assemblies that have stringent requirements for size, precision, reliability, and cost.
- **13 years** of experience in Siemens **NX 3D Modeling, Routing, Drawing, and Sheet metal module.**
- Perform high level of tolerance stack-up calculations and use GD & T/GPS.
- **Good Knowledge in HVDC.**
- Preparation/presentation of design reports for mechanical part/assembly drawing reviews share with the stakeholders.
- Provided technical support to **Dogger bank installation of a wind turbine.**
- Experienced in product design such as Generator components, structural design, and electrical cable route path.
- Experienced in the Selection of Sensors, cables, connectors, cabinets, DIN rail, and switches.
- Experienced in 3D electrical cable routing to electrical parts such as converter, Neutral box, power auxiliary etc., and Harness drawing.
- Determined the sizing of electrical components to meet specifications for electrical, thermal, and mechanical standards.
- Coordinate with multiple teams across several projects and improved product 3D interface error.
- Prepare and implement peer & technical reviews for work packages and deliver within time.
- Experienced in NPI, Cost Outs, Design change, SDR, component verification, and validation.
- Experienced in ECR, ECN, ECO, and ECP creation and released in the PLM.
- Establish and ensure the team follows the agile framework.
- Lead the team and maintained scrum value through a continuous improvement process.
- Providing advice, guidance, and resolving issues to achieve the technical performance goal.

**GE Aviation (GE 9X – Turbine) (2015 to 2016)**

- Responsible to create the product definition for Combustion and Fan Components.
- Deliver the projects according to quality/time.
- Identify technical risk and implement mitigation approaches together with the TLs and Project Manager.

**GE Oil & Gas (Turbomachinery) (2011 to 2014)**

- Experienced in centrifugal compressors such as BCL, MCL (Horizontal split), steam turbine & Gas turbine parts.
- Responsible to validate & verified the automation parts for BCL, MCL, and turbine.

- Responsible to created product definition for all parts such as Impeller, Innercasing, Head flange, casing cover, etc.

#### **Quest Global Engineering Service, Bangalore – Senior Engineer – Oct 2008 to Aug 2011.**

Rolls Royce Engine Trent 500, 700, 900, and XWB.

- To create the manufacturing stage drawing for HP/IP bearing support to all variant engines.
- Collaborate with the on-site team and ensure the deliverables with quality/time.
- Coordinated the project and team at Nottingham UK and got appreciation from the client.
- Technically lead the team and technical solutions provided across the parts to the client.

#### **Allegis Services, Bangalore – Design Engineer- Aug 2007 to Oct 2008**

- To create the components in Interior, Exterior automotive using curves.
- To check the interface and resolve the issues on time.
- Experienced in curve-based modeling and re-mastering models.
- Experienced in product design on interior & exterior parts.

#### **SUI GENERIS, Coimbatore – CAD/CAM Engineer – Aug 2004 to Aug 2006**

- To create the 3D model and develop the pattern with draft and allowance for sand casting.
- To generate the NC codes in CAM software such as NX and MasterCAM.

#### **SKILLS:**

- Evaluate scope change request w.r.t technical risk, competence gap, and impact on the project.
- Experienced in DFMEA, DFM (Design for Manufacturing), MBD (Model Based Definition), Product Design, and Product Definition.
- Experienced in GPS/GD&T(ASME & ISO) & Tolerance stack up.
- Good Knowledge in Manufacturing processes such as Machining, Welding process, Tool & Die, Sheet Metal process, injection Moulding, Casting, Forging, 3D printing, and CNC Code generation.
- Experienced in structural analysis using Ansys workbench and
- Experienced in Teamcenter and Enovia PLM software.

#### **Project Management Experience (Scrum Master):**

- Establishes and manages effective status meetings with the product and delivery manager.
- Providing advice, guidance, and resolving issues to achieve the technical performance goal.
- Coordinate scrum events including Sprint planning, Dailly meetings, Sprint review, and sprint retrospective.
- Ensure our work patterns are consistent across teams.
- Defining and deploying new product development processes and facilitating the continuous improvement of existing processes.
- Remove the impediment and facilitate teamwork to meet the sprint goal.

#### **Achievement**

- shared ideas with the stakeholder and saved costs around \$500K per year.
- 90% reduced the defect and delivered without mistakes and 95% achieved the OTD.

#### **Certification**

- Certified Master Program for Business Analytics Expert on 17 July 2021 By Simplilearn.
- Certified Professional Scrum Master I & II by Scrum.org.

#### **New Skills in Software:**

- Data Science with python, R, SAS, Excel, and Data Visualization with Tableau.
- Good Knowledge of Agile software in Jile, Jira.

#### **Education Qualification**

Degree	Institution	Year of batch	Aggregate
M.E. CAD	Sathyabama University	2012 – 2015	First class
B.E. Mechanical	Bharathidasan University	2000 – 2004	First class