

# **RESUME**

## **Aakash Tilekar**

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### **Career Objective:**

To have a challenging role as a Mechanical Engineer in a reputed company, where I can apply my technical knowledge and skills to achieve professional excellence and meet company's objectives by enhancing its productivity and simultaneously upgrading myself with the trends in the respective field for the significant benefits adding to the company.

### **Core Strength:**

- Accomplished Mechanical Engineering and Master's in Tool design with solid background in product design, analysis and manufacturing.
- Strong exposure in manufacturing ability to analyze engineering drawings, define the manufacturing sequence.
- Areas of interest in tool design, product analysis and structural design.
- Hands on experience in modelling tools like Solidworks ,Nx- Part Design, Autodesk, Product, Drafting.
- Good industry experience in tool design/methods development/tooling standards/manufacturing technologies, try-outs, lean manufacturing methods etc.
- Analysis Software: DeFORM-3D, Ansys, Hypermesh.

### **Professional Experience:**

- **Design Engineer in Satrac Engineering Pvt. Ltd. ( Kyokuto Kaihatsu Group)**  
(From Aug 2021 till present)

### **Key responsibilities and accomplishments:**

- Lead designer of trailers especially (Defence & SPV) Special Projects namely (Shafir- Israel project, Bel Projects- FCC, FLR, FEMV, MCTT, ECIL Projects- ECIL-1,ECIL-2, Kirloskar Group- KPCL, DRDO Project- Spacetek).
- Modelling, Design analysis, Drafting, GD&T usage, Mechanical operations, Involvement in Sub-assembly, Assembly design.
- Weight reduction in different trailers and structural design verification.
- Design of skeletal, Side body, Flat bed, Low bed, Semi- Low bed trailers.
- Involvement in certification of different trailers from ARAI and customer approval for customized trailers.
- New product development for accessories in trailers ( Landing leg customization, suspension modification and customization of different axles).
- Brief knowledge about different chassis used for mounting of Tipper, Load bodies, Rigid flat beds, Petrol tankers, bulker & Bowsers.
- Costing analysis, scrutiny of vehicle architecture and technical specifications.
- Modification and design of brake Layout for 1,2,3-Axle in ABS & BCS system.
- Pneumatic layout and wiring harness customization of different trailers and special projects.

➤ **Contract Engineer in ADE, DRDO.** (September 2020 to Aug 2021)

Project – RUSTOM-II, RUSTOM-I, SWiFT, NIRBHAY, ABHYAS.

**Key responsibilities and accomplishments:**

- Activities of airborne LRUs namely control surface actuator, Retractable Landing Gear System, Austro propeller Engine, TRDD-50 Engine & its variant for UAV, Stealth aircraft skin fabrication process tools for SWiFT.
- Design Analysis, drawing readings, mechanical operation, material inspection, Sub-assembly and assembly procedure inspection.
- Participation in Qualification and Environmental tests as per MIL-STD810G.
- Familiarity in AFQMS process, AS9100, IS:2102-1993 standards.
- Associated during Taxi/Flight trials and ATR range with focus on flight readiness and its checklist, engine run and structural assembly if UAV's.
- Involvement during static structural load test, Ground Vibration Test (GVT), Structural Coupling test (SCT) of wing, HT, VT of aircraft.

➤ **Production and design Engineer in Swan Enterprises Pvt. Ltd.** Chennai (June 2019 – June 2020)

Client: HPCL, BPCL, IOCL, CPCL, APCL, Ashok Leyland, ICF Chennai.

**Key responsibilities and accomplishments:**

- Design for column internals which is used for petrochemical industries and refineries.
- Product in charge for trays made of SS, MS, CS and shearing plan optimization used for column internals.
- Design development of Hooter box, Covering trays used for ICF in engines and coaches, wheel chokes for Ashok Leyland.
- Work Experience on CNC punching machine of sheet metal (Boschert- German make) Bending, Vertical drill and shearing machine.

**Academic Projects:**

**1. (M.E) Internship at Hindustan Aeronautic Limited, Bangalore (Foundry & Forge Divison)**

- Project Title: Design and simulation of Inconel 718 Forging for turbine disc.
- Intern Work: Simulation and design of tool, components for forgings and got a brief knowledge about die design for forging and other manufacturing techniques in forging and foundry.

**2. (B.E) Intern at Hindustan Aeronautics Limited Balnagar, Hyderabad.**

- Project Title: Manufacturing of panel boards for aircraft LRU's in 5 axis CNC Machines.
- Intern Study: Studied about different kinds of manufacturing process of panels used in aeronautics works and gained knowledge on methods of manufacturing and assembly.

**Educational Qualifications:**

Course	University /Board & Institute	Year of Passing	Percentage
M.E (Tool Design)	OU(Osmania University, Hyderabad)	2019	61
B.Tech (Mech)	JNTUH ( St.Martin's Engg College, Hyderabad)	2017	68.4
Intermediate (MPC)	Board of Intermediate Education, AP (Sri Gayatri Jr. College, Hyderabad)	2013	79.2
SSC	Board of Secondary Education, AP ( H.A.L High School, Hyderabad)	2011	77.8

**Personal skills:**

- Leadership skills, Team-working skills and ability to perform under pressure.
- Time management skills.
- Ability to plan organize and prioritize work.
- Adaptable, fast learner, good communication skills.

**Personal profile:**

Father's Name : G.Tilekar

Gender : Male

Marital Status : Single

Nationality : India

Hobbies : New Technological learnings.

Date of birth : 31/03/1996

**Declaration:**

I hereby declare that the above mentioned details are correct and true to the best of my knowledge and belief. I will be personally responsible for the correctness of these particulars.

**Place:** Bengaluru

**Date:**

Aakash Tilekar