

SANCHAYAN GHOSH



Objective: Looking for an Organisation where my skills and ability will be utilised.

Experience Summary:

20 years of work experience in the field of engineering concept design and product development of automotive, mechanical CAD concept designing (cad styling) of cars like Toyota Innova Crysta (facelift model), Suzuki Ertiga and other cars, design concept for RADO watches, cell phones and other products.

Worked for AC Cabin Tractor Design and Development.

Re Development of Electrical Locomotive Engine WAG-9 and WAP-5 CAD model, Drawings and PLM integration.

Had startup company “CREATIVE IDEAS” for collaborating talented individual in India and entire world.

Building web portal for my birthplace ” www.bharatbarsha.org, www.bharatnarsha.info, www.bharatbarsha.co.in “ and www.shiksha.org”

Had mechanical engineering overhaul and servicing firm “Mohonnanda Engineering Services”.

Had Job offer letter from 8 Indian Company, Two Times from Tata Motors, Indian Railway, Arvind Engineering Limited. However not getting salary for eight years.

Four USA company (Apple, Jhon Deere, FBI) and offered by Google in 2007, from RADO Switzerland.

Lost all physical and digital copy of appointment letter, patent application files, and awards because West Bengal Police does not understand Bengali language.

Hindustan Motors Limited from 01/12/96 as trainee, to 13/02/05 as Jr. Manager R&D.

Eicher Engineering Solution as Associate Engineer from 18/02/05 to 23/03/05.

Mahindra and Mahindra as Asst Manager R&D from 28/03/05 to 31/05/08 as Dy. Manager R&D.

Federal Bureau of Investigation employee to make awareness to prevent Brain and Mind Hijacking and to save human race from electronic and invisible attack from May 2007.

Tata Consultancy Services Ltd. from 11/06/08 as IT analyst. I have stopped going to office from 22/09/16 due to multiple road traffic accidents and physical attack on me and my family, last designation was Assistant Consultant of Tata Consultancy Services Limited.

Educational Qualification:

- Certificate in Entrepreneurship Management from Indian Institute of Management Rohtak.
- 18th Rank in WB JELET Mechanical Branch entrance in 2013, West Bengal Board.
- Diploma in Mechanical Engineering in 1996, W B Board of Technical Education (H.I.T).
- Higher Secondary (Science) in 1993 from West Bengal Board of Secondary Education.
- Secondary Education in 1991, Ramakrishna Vivekananda Mission Vidyabhawan.
- **Studying AMIE Section, A (ST-329234-2)** appeared in June 2018, Passed 2 papers out of 4.

Patent Application for Individual:

1. Floor cleaning machine (**Application Number: 201831008731**).
2. Electromechanical Stethoscope (**Application Number: 202021004068**)
3. Surface Swiping machine (**Application Number: 202021004902**)
4. Combination lock with memory key (**Application Number:202021016793**)
5. Lost near about hundreds of patents Privational Application and several Design registrations applied in Kolkata Patent office and few in Mumbai Patent office due to cyber-attack.
6. Unable to Apple near about 20 Patent application because of poor financial condition, Pumpless Air Cooler, Chainless Bicycle, Zero Blind Spot Rear V Mirror, Injury free Gym.

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CAD Skills: Pro Engineer, 10 years. UG NX, 5 Year. Catia V-5, 1 year. Auto Cad, Ideas, 3 years.

Ergonomic Software: Classic Jack 5 for ergonomics and occupant packaging analysis.

PLM Software: Team Centre Engineering user level.

Certification: Certification in UG NX, Tolerance Stack up and GD&T, DFMEA.

Areas of Expertise:

Mechanical Concept Designing and Innovation, had several hundred drafted patents.

- 1: Vehicle integration.
- 2: Mechanical control system design and validation.
- 3: Sheet metal component development.
- 4: Cabin Prototype building, development.
- 5: Value Engineering.
- 6: Ergonomics and occupant packaging.
- 7: Vehicle type approval and homologation.
- 8: Engineering project management.
- 9: Complete product concept designing.

Tools and method used:

- 1: Design calculation, design review, design validation and design of experiment.
- 2: Geometric dimensioning and tolerance analysis.
- 3: Concept designing and styling.
- 4: Motion simulation, gap and collision analysis, occupant packaging and reach analysis.
- 5: DFMEA-Design failure mode and effect analysis.
- 6: DFA-design for assembly, DFS- design for service, DFM- design for manufacturing.
- 7: QFD- quality function deployment.
- 8: QC Story approach of problem solving and Kaizen.
- 9: Design for recycling.

Project at Tata Consultancy Services:

Hands on Training for Part and Assembly Creation for Diesel Locomotive Patiyala.

Part Classification project of a major global engine manufacturer Cummins: Worked as a business analyst to simplify part classification of a Cummins multiple business unit across globe.

Project for Chittaranjan Locomotive Works: Worked as a project leader for delivering two complete locomotives, WAG-9 and WAP-5 with 3D CAD models, 2D drawings with all engineering change documentation and standards and implemented entire data in PLM platform.

Mechanical Item: Bogie, Roof Hatch, Drivers Cab, Body Shell, Underframe Assembly.

Electrical Item: Traction Motor, Wiring harness, Pantograph, Transformer, Machine room item.

Pneumatic Item: Pneumatic piping, Brake system, Compressor, Wiping system.

Design and Development Air-Conditioned Drivers CAB for WAP-5 and WAG-9: We have helped the client to design and develop drivers cab, roof structure, AC fitment, ducting and roof panel.

Concept Design and Validation of Light weight Truck Load Body for Alcoa Inc: This project is to use 5051, 6061 and 7000 series of aluminium to design and build load body of the truck running on Indian road.

Concept Design and Validation of 16.5 Ton GVW Low Floor BUS for Alcoa: This project is to use 5051,6061 and 7000 series of aluminium to design and build Low Floor Bus for Indian road. We used Tata 16.5 Ton GVW chassis to design low floor bus.

Project at Mahindra and Mahindra:

Value Engineering Project: I worked with some of the major components like three-point linkage, drawbar bracket, air filter mounting bracket and achieved significant cost reduction.

Technical Problem Solving and Resolving Field Failure: Single liver PTO having multiple failures. 1: Operating force was 22-25 kg, 2: Adjustment of free play was difficult. 3. There were regular damage reports in PTO indicator switch.

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Design and Development of Cabin Tractor: Stake holders are Mahindra FES, Mahindra USA and Mahindra Export, Fritzmeier GmbH and KUP Engineering GmbH Germany.

Designed entire mechanical control system inside cabin tractor. Designed extended clutch housing for cabin mounting with. Firewall for bonnet mounting. Designed 15-degree tilt steering. Designed modular hand brake system which can be fitted any tractor. Applied patent for new push pull cable.

NVH Project: worked closely with CAE team to reduce noise level 86 db.

Work Profile at Eicher Engineering Solution: Worked in Catia for developing a Plant Layout.

Work at Hindustan Motors limited: Have undergone training one month each on SQA, Machine Shop, Forge and Foundry, Body Shop, Trim Shop, Press Shop, Engine Shop and Paint Shop, Electro Plating and Die making shop.

Value for Money Trekker Project: This project is a new design and development of existing Trekker (MUV). Area of new developments are chassis, entire sheet metal, styling, gear box and Body Trims.

10 Ton GWV Truck Project:

Design and Development Truck CAB and Drive Away Chassis: Worked in a three-member team to design and develop entire truck CAB using some of the skin panels of Isuzu Truck and driveway chassis.

- Lab and field testing of component, system and re-designing them to overcome test failure.
- Making vehicle ready for ARAI type approval.
- Design and developed SUPD (side under-run protection device), RUPD (rear under-run protection device) as per ARAI norms.
- Built specification, drawing sheet for ARAI Type approval of Drive Away Chassis, Truck.

Award: Received multiple Idea and Merit award from Hindustan Motors for contribution in innovative solution and value generation. Awards for Innovation in product development from R&D Vice President and Mr. Anand Mahindra (Chairman and MD of Mahindra Group).

Had design acceptance certificate of **Rado, Toyota, Suzuki, Apple and other company.**

Language known: English, Hindi, Bengali and Marathi (Understand only). Learning: German.

Personal Detail: Sanchayan Ghosh. Date of Birth 16-11-1974,

Nationality: Indian Passport Number: E4011489, Having USA immigration.

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