

CURRICULAM VITAE

AJAY JANGIR - Mechanical & Design-Development Engineer

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New Delhi-110041 INDIA.



A dynamic, team spirited and performance driven engineering professional with an extraordinary blend of leadership and manufacturing industry knowledge. Recognised for keen ability to improve component design, increase efficiency. Ability to communicate and motivate team members to enhance strategic goals and bottom lines objectives. Creative problem solving and troubleshooting skills complemented by meticulous and creative detail to drawings and specification.

ACADEMIC CREDENTIALS

- **M-Tech. Machine Design!** M.D UNIVERSITY! Pursuing
- **B-Tech. Mechanical Engineering!** M.D UNIVERSITY! with 70%
- **Diploma in Product Design!** CADD CENTRE! A+ GRADE.
- **10+2!** Sarvodaya co-ed School! CBSE! with 70%.
- **10th!** Sarvodaya co-ed School! CBSE! with 70%.

KEY SKILLS

- **Operating System** – Windows XP, 7, 8, 10.
- **Engg. Design/Analysis software** – AUTOCAD, CATIA v5, CREO/pro-e parametric & wind chill, Solid works, ANSYS (icepak, cfd), NX(Unigraphics), Hyper mesh, Inventor Fusion, GD&T.
- **Office Software** - Ms -Word, Excel, Power point, Corel Draw, Photoshop, Adobe Reader, E-mail, Outlook.

WORK EXPERIENCE

EMPLOYMENT: NAPINO AUTO & ELECTONICS.GURGOAN

MARCH 17- PRESENT

Design and Development Engineer(D&D) - Working on 3D Modelling software, Design and Development of Casting, Forging, Injection moulding Automotive ancillary parts & Wire harness on CATIA v5, AUTOCAD, CREO parametric.

Simulation of Electronics assembly on ANSYS Icpak & CFM.

- Design & Developed HEAT SINK & Wire harness for HERO Moto Corp, Honda, Suzuki & General Motors.
- Design Injection mold Connectors & Sheet metal Terminals for Wire Harness assembly.
- Design & Developed Fuel Injector system, Magneto cover for Hero Moto Corp.
- Design DC-DC Convector, PCB, LED AC&DC MOTOR & E-VEHICLE components.
- Design JIG & Fixtures for Wire Harness Assembly, Sheetmetal component & injection Moulding switches.
- Preparing all Documentation DFMEA, PPAP, EDP, ECN, DRN & APQP.

- Working on 3D modelling Software using Surface modelling, Part modelling, Sheetmetal module. Drafting, Assembly, Detailing, Section view & BOM creation. Also Design & Developed Injection moulding dies and Forging dies.

- Gun Metal components, Pressure Release Valve, Air Release Valve Design.
- Pneumatic & Hydraulic Cylinder Design for Engine assembly.

EMPLOYMENT: Capital Tool Precision, FARIDABAD**FEB 2014 – MARCH 2017**

Design Engineer(Mech.) works on 3D Modelling software on CATIA V5, AUTOCAD & NX. Designs Developed Automotive ancillary parts & sheet Metal components on Surface & Sheetmetal workbench. Also design solid modelling AUTO components, Drafting, Detailing Assembly & BOM Creation.

Using skills – Part modelling, Surfacing, Sheet metal, Assembly & Drafting workbenches.
CATIA v5, AUTOCAD, SOLIDWORKS, NX.

- Designs& Developed JIG & FIXTURE for SPM & AUTO Exhaust system components.
- Design Air condition system body & Compressor body design.
- Welding Equipment & Drafting & Detailing of all parts.
- Designed Leak Testing & Pneumatic machine.
- Knowledge& Experienced of BIW initial to final stage process.
- Welding knowledge –MIG, TIG, Projection, Seam, Spot welding, Penetration allowance etc. have good knowledge of parameters using in Industry (production deptt.).
- Design Auto ancillary in Sheet metal components.
- Die & tool design (casting and forging dies, sheet metal product)
- Experience to operate Vernier Calliper, Micrometre, Head Gauge, Angle Protector, fillet, Thread & GAP Gauges
- Knowledge of VMC, CNC Lathe, Curling & Seaming m/c, Milling, & Press-tool machine.
- Designs Conical Cap of Muffler, Baffle, shell body (child & parent parts)
- Stay, Stiffener, Clamp, Bracket sheet metal child parts for Automobile assembly.
- Flange Designs –Type: Weld Neck, Slip On, Socket Weld, Lap Joint, Threaded, Blind.
- Automotive child part of Exhaust system –Front Pipe & Tail Pipe.
- Exhaust system parts -Baffle, Shell Body, Elliptical Cap, Bellow etc.
- Highly experienced to solve engineering calculations and knowledge of International standard.

EMPLOYMENT: Maruti Suzuki motors. (INTERN) DELHI**MAY –DEC 2013**

Learn a depth Technical knowledge in four wheelers of MARUTI SUZUKI from initial stage to final stage to resolve problems of vehicle.

- Wheel Balancing, Wheel Alignment.
- Brake Calliper, Brake Pad, Air Filter, Engine Oil, Oil Filter, Coolant, Injector, Sparking Plug, Fuel Pump, Rubber Belt, Timing chain, Head gas kit, cam shaft all technical problems related to vehicle gain and resolved.
- Transmission System (GEAR BOX) & Engines knocking Problems calculation solving.

EMPLOYMENT: CADD CENTRE. GURGOAN

- Worked as Team leader to provide the Mechanical CAD software training to Engineering students on **AUTOCAD, CATIA, CREO, SOLIDWORKS, ANSYS, NX, HYPERMESH, INVENTOR FUSION 3DsMAX, REVIT, GD&T.**
- Excellent commanding and operating in Engineering designing software.

SOFTWARE EXPERIENCE

- **CATIA V5**- High skilled in CATIA, Designer with 4year experience on all workbenches, Part modelling, Surface modelling, Assembly, Drafting, Sheetmetal, Generative shape design, Core & cavity, Kinematics &Simulation.
- **AUTOCAD**- Experience of 2-D drafting & 3-D modelling modules, version 2010-2017.
- **ANSYS 18.1**- Experience of FEM/CAE, build finite element analysis(FEA), Model meshes, Engineering data & Materials mechanical property apply& selection. Calculating impact of load applying, Thermal, Fluid dynamics, Force distribution calculation, Linear buckling analysing, Generate report.
- **CREO4.0**- Experience in Bench vice, Assembly, Mould design, Drafting, sheet metal product Part design, Surfacing products & Simulation & wind chill.
- **SOLIDWORKS** - Experience of Solid modelling, Sheet metal, Assembly, Weldment, Motion work, Simulation Drafting & Surfacing modules.
- **NX-UNIGRAPHICS**- Experience in parametric and direct Solid and Surface modelling. Advance Assembly, Sheet metal Design, Drafting & Annotation.
- **DEL CAM &CNC Programming**-Basic knowledge of DEL CAM & CNC Programming.

KEY RESPONSIBILITY

- Identify the needs and goals for product design -development, from function to aesthetic.
- Refining & Reviewing the designs & delivering the specifications.
- Responsible for executing and ensuring the on -time development of reliable transmission design, which ensure new or modified products are able to be manufactured and maintain company standards.
- Co-ordinate with market researcher & material suppliers.
- Experiment of new models & analysing with different materials, Manufacturing processes, Design Tolerances & Development.
- Compact & durable design with cost cutting development.

PROJECTS ACHIEVED

- Design and Developed feul Injector system for 2 wheelers.
- Design and Heat sink for Regulator Rectifier and body case for Capacitor Discharge Ignition as customer requirement. Also analysing Heat dissipation factors.
- Design LED panel for Head light (Yamaha fzs), Wire harness.
- Design 30 feet conveyer system for Assembly line.
- Design & Developed Leak testing machine for Automotive Exhaust system.
- Design BLDC Motor for E-VEHICLE.
- Design & Developed SPM Machine for increase efficiency of production.
- Design Hydraulic Machine & Pneumatic vessel.
- Research on Heat dissipation from Exhaust System.
- Design disposable Air filter (Size-10*20,14*20,16*24,12*12,16*25) and Oil filter.

STRENGTH

- Excellent communication skill.
- Hard Working & Positive attitude.
- Tolerance of stress & Enjoys Responsibilities.
- Self-motivated and punctual.
- Work well individually and in a team & complete project before time.
- Taking all responsibilities determined.
- Fully commitment to my work.
- Quick learner to new things.

HOBBIES AND INTEREST

- Listen to Music.
- Read books
- Hang out with friends.
- Help out other.
- Play sports.
- Travelling

EXTRA CURRICULAR ACTIVITIES

- Free hand Sketching, Learning new Tools in updated version of software , Industrial training.

PERSONAL DETAIL

- **Permanent Address:** C-520, Street no-4, Nangloi, NEW DELHI-110041.
 - **PASSPORT** -YES
 - **Date of Birth:** 7/JUNE/1993
 - **Mobile Number:** 8010804801
 - **Language:** English, Hindi, Marathi.
 - **Email:** jangir793@gmail.com
 - **Linkedin:** <https://www.linkedin.com/in/ajay-jangid-90661ab0>
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“I hereby declare that the above furnished information is true to the best of my knowledge”.

Date: JAN /2018

Place: Nangloi (NEW DELHI)

yours faithfully

Ajay Jangir