

CURRICULUM-VITAE

AJITH KUMAR A

S/O ANBARASAN
No ¾, Meal Street
Mimisal, Pudukkottai (dt)Tamil nadu.
Email-Ak.ajiithram123@gmail.com
Mobile No: +91-9750375044

OBJECTIVE:

To Coordinate a team and to devote all my abilities for the growth of the organization and emerge into a best, notable name in the field and develop into a model for the contemporary generation.

CORE COMPETENCIES:

- **4.5 Years of Experience** mainly in **Manufacturing, Design and GD&T application.**
- **4+years of Experience** in **Fixtures and Gauges.**
- **6 Months of Experience** in **Steering Wheel Product Design and Development.**
- Basic Knowledge in **Tolerance Stack-up Analysis (1D).**
- Hands on Experience in **GD&T Drawing Creation and Quality Check.**
- Hands on Experience in **CATIA V5, SOLIDWORKS 2015.**
- Proficient Knowledge of GD&T.

WORK EXPERIENCE:

-Working as **Manufacturing Engineer** with **Krisam Automation Pvt Ltd**, Bangalore.Since **FEBRUARY 2023 to TILL** (6 Months)

-Working as a **Design engineer** in **Design and development** with **INNO FIXTURE & GAUGE**, Chennai.
Since **August 2018 to December 2022.** (4.4-year experience)

-Working as a **Programmer** in **Manufacturing engineer** with **Precitol Tool Rooms**, Chennai.
Since **June 2015 to July 2018.** (3.1-year experience)

Designation: **Manufacturing Engineer.**

PROFESSIONAL EXPERIENCE SUMMARY:

Over 8+ years of professional experience in the field of **Manufacturing, Design & Development** which includes, **Assembly fixtures, CMM fixtures, checking fixture, Machining fixtures, Gauges, Welding fixtures, BIW fixtures, SPM machines** for Automotive, Aerospace, Commercial, heavy engineering industries Projects. **2D Drafting (GD&T) & 3D Modeling, New Product Development, Sample validation & get approval** from Customer.

Allotting GD&T and its symbols for all gauges, fixtures for controlling the **in process manufacturing** and **assembly.**
And fixing the **CMM control points** for controlling the **profile of surface** for all Plastic part fixtures and sheet metal fixture.
Expertise of CAD/CAM/CAE.

TOOL AREA: 3D solid, surfacing, Assy and sheet metal design, 2D drafting.

- Complete understanding of customer requirement before start off any project setting the deliverable accordingly.
 - Design of fixtures for plastic injection mold, metal stamped parts, small mechanical assemblies (Automotive parts) for design fit, GD&T Tol. Stacks, **ASME Y14.5** Drafting Std.
 - Design and development of BIW Parts, design proposal based on the customer needs (Upper body, Underbody, Closures)
 - Preparing the flow chart (Deciding the process) for various components.
 - Worked for Engineering Changes in Product Design (BIW Parts)
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- Managing design engineering order release for development of aggregate level and system level Design follow up and checking the assembly drawing and Detail drawing.
- Co-ordinate with manufacturing team to sort out difficulties during manufacturing process.

PROJECTS UNDERTAKE

At KRISAM AUTOMATION PVT LTD

- Manufacturing of all kind of machining parts for special purpose machines
- Ather-vex vehicle assembly robotics.
- Handling Vendor Selection and Evolution
- Cost Analysis of Manufacturing Parts, In-house Machine Shop Manufacturing Process.
- Checking for Final Product Designing review.
- Work with. ERP and Reviewing and upload for Bill of Material(BOM)

At INNO FIXTURE & GAUGE

Client: RANE TRW STEERING SYSTEMS

- Handled concept designing of AIR BAG checking gauge
- Developed checking fixture for Driver Air bag, Side Air bag, Curtain Air bag, Rear Side Air bag, Front Side Air bag.
- Submitting complete design, manufacturing and quality report documentation to the client.

Client: Metal Forms Private Limited

- Design and development of various BIW Sheet Metal Part Checking Gauges and Welding Fixtures for **Ashok Leyland s and Daimler s** projects.
- Creating technical drawings (2D drafting) and applying GD&T for controlling in-process manufacturing and assembly
- Following up the projects while in Manufacturing assembly and quality checking.
- Creating CMM data and validating it with the design.

Client: ATHER ENERGY

- Design and development of Zero Station (**Vehicle Assembly Fixture**)
- Concept design for various assembly fixtures for **Rear Frame, Mid Frame Sub Assembly** for Electric Vehicle s (**2 wheeler EV**) assembly line.
- Concept design for battery pallet for their battery manufacturing plant.
- Creating technical drawings with proper GD&T.
- Creating CMM Datasheet.
- Submitting the complete design, manufacturing and quality report documentation to the client.

Client: OLA ELECTRIC

- Design and development of Testing Fixtures of Electric bike components.
- Design and development of Light Burning Automation Fixture.
- Concept design of CMM Holding Fixture for Rims, Structural Arm and Display.
- Design and Development of Profile Checking Gauges Air Vent Duct hoses (rubber parts) of Hyundai Components.

SPM:

- Design and Development of **Vehicle Assembly Automation Fixture** for Electric Bike(EV) for Ather Energy.
- Design and Development of **DE coiler machine** for sheet metal Rolling for Tanktech Asia Pvt Ltd.
- Design and Development of **Fabrication bending machine** for sheet metal for ML fabrication industry.

At Precitol Engineering Tool Room Pvt Ltd – Chennai, TN

- Delcam CAM programming proficiency
 - Organize large production runs with of abrogate tooling, fixture, mould, productionon 3-Axis Machining center
 - Extensive Knowledge feed, speeds and cutter selection
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- Working knowledge of Aerospace specification
- Worked with materials ranging from aluminum to titanium while holding tolerances of ± 0.005 to ± 0.03 microns.
- Addressed problems with customers to promote quick and successful resolution.
- Supervised employees to decrease process lags and boost productivity.
- Performs setup, Programs and runs VMC
- Prepare detailed work instructions and supervise machining process validations including overall fresher trainers.

TECHNICAL KNOWLEDGE

- A complete study of drawing and apply GD&T.
- Identifying the locating Datum s and clamping points.
- Having knowledge in DFMEA.
- Having Knowledge in GD&T and LIMITS and FITS and TOLERANCE.
- Having knowledge in Material selection and Heat treatment process.
- Having knowledge in Machining process and its feasibilities.
- Verbal, written, leadership and interpersonal communication skill.

SOFTWARE PROFICIENCY

- Well versed with **CATIA V5, CATIA V6, SOLIDWORKS 2015.**
- MS-Office.
- Basic Knowledge in NX.

EDUCATIONAL QUALIFICATIONS:

- Under Purching B. Tech in Mechanical Engineering 2021- Till Date (2021-2025) Institute: Dr.MGR University, Chennai.
- Under Graduate in Diploma in Mechanical Engineer (2013-2015)- 62%. Institute: Sasthaa Polytechnic College, Aranthangi (TAMIL NADU)
- HSS in Computer Science (2011-2013) – 74.6%
Institute: Laurel Hr. Sec School (HSS -ENGLISH). Aranthangi (TAMIL NADU)
- S.S.L.C in mathematics, science, social science 2011– 71.6%
Institute: Laurel Matric Hr. Sec School (HSS -ENGLISH). Aranthangi (TAMIL NADU)

Personal Details:

Father Name	:	Mr.ANBARASAN
Date of Birth	:	13-04-1996
Languages Known	:	English, Tamil
Gender	:	Male
Nationality	:	Indian
Marital Status	:	Single

I do here by confirm that all the details furnished above are true to the best of my knowledge and belief.

Thanking You,

Date	:	yours sincerely,
Place	:	AJITH KUMAR A
