

Anil kumar Rathod

Mechanical Engineer with 6 years 7months of Experience in Design

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- More than 6 years of experience in MIG welding fixture, Machining fixtures, Checking Fixture, SPM'S, Inspection gauges, Jig & Fixtures.
- Study of Welding plan, Weld Gun Accessibility, Study of Clamping Plan, Panel Loading and Unloading Sequence.
- Study of Process drawings, Machining processes, Cutting tool feasibility, Clamping feasibility for designing machining fixtures.
- Design and detailing of manual fixtures like Welding, Machining, Checking, Inspection Fixtures.
- 3D concept design, 3D finish and detailing.
- POKA_YOKE and Human Ergonomics Study.
- Preparation of BOM using standard material catalogue provided by Client.
- Tool validation, Modification.
- Data management.
- CATIA V5-Part modeling, Surface modeling, Assembly modeling & Drafting modeling.
- Autodesk inventor-Part modeling, Assembly modeling & Drafting modeling.

WEBSITES & SOCIAL LINKS

Linkedin: <https://www.linkedin.com/in/anil-kumar-rathod-531954102>

EDUCATION

Aug 2012 - Jun 2015 **B.E -> Basaveshwar engineering college, Bagalkot**

Aug 2009 - May 2012 **Diploma -> Yadgir Polytechnic Yadgir**

Jun 2008 - Mar 2009 **SSLC -> Chiranjeevi Methodist High School, Yadgir**

EXPERIENCE

- Jul 2022 - Present **Design Engineer -> Sansera Engineering Ltd., Bengaluru**
- Designing of Machining fixtures, Inspection Fixtures for various Automobile Engine components and aluminium structural components for EV vehicle.
 - Preparation of concept design for NPD component.
 - Continues interaction with process and tool design team, for better concept and design.
 - Preparation of manufacturing drawing by applying proper GD&T symbols and proper tolerances.
 - Tool validation & Modification.
- Jul 2021 - Jun 2022 **Design Engineer -> Sansera Engineering Ltd.(On Contract), Bengaluru**
- Sep 2020 - May 2021 **Sr.Design Engineer -> Aryan technologies, Pune**
- Preparation of concept design.
 - Design of MIG welding fixture, Checking fixture, Inspection gauges, Conveyors & Cooling fixtures.
 - Attending review meeting with customer for design approval.
 - Project Planning and assigning projects to the team members.
 - Preparation of manufacturing drawing by applying proper GD&T symbols and proper

tolerances.

- Checking drawings of fixture design and approving those drawings for releasing stage.
- Tool validation & Modification.
- CATIA V5-Part modeling, Surface modeling, Assembly modeling & Drafting modeling.

Jan 2019 - Sep 2020 **Design Engineer -> Fine Arc Systems Pvt Ltd, Pune**

- Design of MIG welding fixture, Leak testing fixtures, SPM'S, Welding cell, Inspection gauges.
- SPM'S like Edge crimping machine, Ridge locking machine, Gut insertion Machine & Mechanical Mast.
- Study of MIG welding, Weld Gun Accessibility, Study of Clamping Plan, Panel Loading and Unloading Sequence.
- 3D concept design, 3D finish and detailing by using CATIA V5 tool.
- Quality control- Checking of 3D Design and detailing.
- CATIA V5-Part modeling, Surface modeling, Assembly modeling & Drafting modeling.

Sep 2016 - Dec 2018 **Jr.Design Engineer -> K & T Gauge & Fixture Engineering, Pune**

- Design of Checking fixtures for automotive parts like Bumper assembly, Lamp assembly, Door assembly and for child parts.
- Preparation of project related documents.
- Interacting with clients and other departments for design improvement, as well as to resolve the problem and minimize the impact.
- 3D concept design, 3D finish and detailing by using CATIA V5 tool.
- CATIA V5-Part modeling, Surface modeling, Assembly modeling & Drafting modeling.

SKILLS (TECHNOLOGY / FUNCTIONAL)

CATIA V5 | Autodesk Inventor | AUTOCAD | NX 11.0

Professional Enhancements

6 Months certificate course in MCTE from central institute of tool design, Hyderabad

CATIA V5
CREO 3.0
AUTOCAD
SOLIDWORKS
NX 10.0

PROJECTS

PROJECTS

- MACHINING FIXTURES FOR CONNECTING ROD, ROCKER ARM, CRANKSHAFT AND FOR ALUMINIUM CHASSIS COMPONENTS.
- WELDING FIXTURES FOR SEATING COMPONENTS, SU2I FRONT BUMPER, MAHINDRA AND MAHINDRA EDGE CRIMPING MACHINE, EXHAUST COMPONENTS KATCON POLAND, FAURECIA RIDGE LOCKING AND GUT INSERTION SPM, MANUAL WELDING FIXTURE FOR EXHAUST COMPONENTS(TENNECO)
- FRONT BUMPER ASSEMBLY CHECKING FIXTURE(MAHINDRA Y400 SUV), DOOR ASSEMBLY AND CHILD PARTS CHECKING FIXTURE(MAHINDRA S201), LAMP ASSEMBLY CHECKING FIXTURE(Q501 TATA), FUEL TANK INNER AND UPPER(GODREJ), FENDER AND BRACKET REINFORCEMENT SHEET METAL PARTS CHECKING FIXTURE(VW), DOOR CHILD PARTS CHECKING FIXTURES (Mahindra MPV U321)

COURSES

Jan 2015 - Jan 2015 **7 days Hydraulics and Pneumatics course from BEC-BOSCH REXORTH at BEC, BAGALKOT**