



KARTHIKEYAN S

SENIOR DESIGN ENGINEER & PROJECT LEAD



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PROFILE

Mechanical Engineer with strong domain knowledge in product design, sheet-metal design, piping, FEA, and CFD simulations. Experienced in delivering engineering solutions for industrial machinery, consumer products, and custom mechanisms using advanced CAD/CAE tools.

INDUSTRY KNOWLEDGE

- Engineering Drawing
- Drafting
- 2D &
- 3D Modelling
- Plastic Design
- Sheet Metal Design
- BIW
- Fixture Design
- Wiring Harness Design
- GD & T Symbols.

CERTIFICATIONS

SOLIDWORKS

- Certified SolidWorks Associate Trainer (CSWA)
- Certified SolidWorks Professional Trainer (CSWP)

EDUCATION

2020 - Bachelor Degree in Mechanical Engineering

PROFESSIONAL SKILLS

DESIGN & CAD TOOLS

- AutoCAD
- SOLIDWORKS
- Pro-E/CREO
- NX-CAD
- CATIA V5
- Autodesk Inventor
- Mastercam (Multi-Axis)
- NX-CAM

ANALYSIS & SIMULATION

- Ansys
- Hypermesh
- Ansa
- LS DYNA

MANUFACTURING & OTHER SKILLS

- 3D Printing
- Wiring Harness
- GD&T Symbols
- Sheet Metal Design

EXPERIENCE

LASAK TECHNOLOGIES PVT LTD

SENIOR DESIGN ENGINEER, 04/2021 to Present

LASAK TECHNOLOGIES PVT LTD.

INDUSTRIAL PROJECTS DONE

REVERSE ENGINEERING PROJECTS

- TOY modelling - JCB
- Eccentric Gear Mechanism
- Architectural Design
- Tesla Valve
- Solar Dryer
- Electrical Load vehicle
- Hydraulic Brake
- Jaguar Machine
- Pressure Sensor Valve
- EOT Crane
- Industrial Air Conditioner
- CNG Plant Design
- Valves
- 3D Printing Components

RETROFITTING PROJECTS

- Jaguar Machine
- Poultry Vaccinator
- Metal Cage - Framework

ANALYZING PROJECTS

- Heat Coil
- Solar Panel
- Intake Manifold
- Tungsten Bulb

PATENT PROJECTS

- Steam Boiler
- Specialized Helmet
- Specialized Chair
- Water Bottle
- Crab Robot
- Solar Umbrella
- Multi-Chamber Bio Film Analyzer
- Methanogen Culture Jar

LASAK TECHNOLOGIES PVT LTD

SENIOR DESIGN ENGINEER, 04/2021 to Present

LASAK TECHNOLOGIES PVT LTD.

- Create 3D models and simulation in CAD/CAE tools.
- Lead Reverse Engineering and Retrofitting Projects.
- Support projects in analyzing, patent design & prototype development.
- Coordinate with manufacturing and assembly teams for final product completion.

LASAK EDU

TRAINER,

04/2021 to Present

LASAK EDU.

- Design documentation and control.
- FEA analysis.
- Preparation of packing list and stuffing drawings.
- Design change based on the customer requirement.
- In house & field projects and validation.
- Reliability analysis.
- Creating CAPA for customer complaints.
- Creating the SOP and Design policy.
- Manufacturing, assembly and erection support.
- Preparing the assembly procedure and checklist.
- Preparing the PDI.
- Design CFT & DRP.
- Preparing the BOM as per the customer requirement.

LASAK EDU

TRAINER,

04/2021 to Present

LASAK EDU.

- Trained all cad software's like Autocad, Solidworks, CREO, Catia, Nx cad, etc.,
 - Giving Knowledge about basic of Engineering and mechanical technical
 - Trained GD&T concepts.
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