

Design and Automations Services



Address	411, Satva Icon, SP Ring Rd, Vastral, Ahmedabad, Gujarat 382418
Contact Person	Design and Automations Services
Mobile Number	
Email	design.automations.services@gmail.com

Design and Automation Services (DAS) is a leading CAD design, engineering, and automation solutions company headquartered in Ahmedabad, Gujarat, India. With a strong foundation in mechanical design, 3D modeling, CAD drafting, and reverse engineering, DAS partners with manufacturers, OEMs, and product developers worldwide to deliver precise, high-quality engineering design services.

We specialize in end-to-end CAD outsourcing solutions that help businesses accelerate product development, reduce design cycle time, and optimize engineering workflows. Our team of skilled engineers and CAD specialists leverages the latest technologies to create accurate, manufacturable, and cost-effective design outputs aligned with global standards.

Our Mission

To empower global manufacturers, fabricators, and design teams with reliable, technology-driven CAD and automation services that enhance productivity, improve accuracy, and reduce operational costs. We aim to be a trusted engineering outsourcing partner that clients can depend on for innovative design solutions and seamless collaboration.

Our Vision

To become a globally recognized engineering design and automation leader, helping industries transform traditional CAD processes into intelligent, automated, and data-driven design systems that accelerate innovation and manufacturing excellence.

Our Expertise & Services

At Design and Automation Services, we deliver a comprehensive suite of CAD design, engineering, and automation solutions tailored to accelerate your product development lifecycle.

1. CAD Drafting & 2D Conversion

Transform your legacy drawings, hand sketches, or blueprints into accurate, editable CAD data. Our team uses AutoCAD, SolidWorks Modeling, and Inventor to deliver production-ready 2D drawings.

Capabilities include:

- Paper-to-CAD and PDF-to-CAD conversion
 - Assembly drawings and BOM preparation
 - Tolerance and GD&T detailing
 - Migration of legacy data into standardized CAD templates
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2. 3D Modeling & Product Design

We offer parametric 3D modeling for concept design, product development, and manufacturing documentation. Our engineers ensure every model is optimized for accuracy, manufacturability, and visual clarity.

Expertise includes:

- Solid, surface, and sheet-metal modeling
- Assembly design with motion study and simulation
- Tooling and fixture design
- Rendering and visualization for marketing or client presentations

3. Reverse Engineering & 3D Scanning

Recreate precise 3D CAD models from physical parts using advanced 3D scanning and digital reconstruction. Our reverse engineering workflows improve product quality and reduce downtime in reproduction or redesign.

Expertise includes:

- 3D scan-to-CAD modeling
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Legacy part reproduction

- Design optimization & digital archiving
- Product improvement through geometry analysis

4. Design Automation Solutions

Streamline your engineering process with our CAD automation and DriveWorks solutions. We eliminate repetitive manual tasks by developing custom scripts, macros, and configurators that intelligently adapt to your design rules.

Our capabilities include:

- DriveWorks implementation & rule-based configuration
- Parameter-driven templates for parts and assemblies
- Automated drawing creation & BOM generation
- Integration with PDM/PLM systems for data management

5. DriveWorks Support & Training

We don't just build automation systems - we empower your team to manage them. Our DriveWorks Training programs provide hands-on instruction, best practices, and ongoing technical support to maximize

your ROI.

Key highlights:

- Certified DriveWorks implementation guidance
- End-user & administrator training
- Remote and on-site training options
- Troubleshooting and workflow optimization

6. CAD Customization & Automation

Enhance your engineering environment with custom macros, plug-ins, and API integrations built for your CAD platform. We tailor automation tools to your company's standards and project requirements.

Services include:

- CAD interface and template customization
 - Automated feature creation and parameter control
 - Library and standardization setup
 - Productivity plug-ins for SolidWorks and Inventor
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7. Sheet Metal Design

We deliver precision-driven sheet metal design services from concept to fabrication. Our expertise ensures manufacturable, cost-effective parts and assemblies ready for laser cutting, bending, or welding.

Specializations:

- Sheet-metal modeling and flat patterns
- Material optimization and nesting support
- Fabrication-ready drawings and DXF outputs
- Prototype to production-level detailing

8. Millwork & Joinery Design

Serving furniture, cabinetry, and woodworking industries, we offer detailed millwork and joinery CAD design for precision ;

Our capabilities include:

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2D shop drawings and assembly details

- Parametric 3D models for custom furniture
- Material optimization and part labeling
- Integration with CNC and cutting workflows

9. 3D Visualization & Rendering

Enhance presentations, marketing, and client communication with photo-realistic 3D renders and animations. Our visualization experts use high-end rendering tools to create impactful imagery for products and interiors.

We provide:

- Product renderings for catalogs and web
- Exploded-view animations and motion simulations
- Concept visualization and photorealistic imagery

Industries We Serve

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Manufacturing & Industrial Equipment

- Automotive & Transportation
- Aerospace & Defense Engineering
- Consumer Products & Appliances
- Sheet-Metal Fabrication
- Oil & Gas Components
- Tooling, Jigs, and Fixtures Design

Why Clients Choose DAS

- **Engineering Expertise:** Our team includes certified CAD professionals with deep mechanical and manufacturing knowledge.
 - **End-to-End Design Capabilities:** From 2D sketches to full 3D assemblies, automation, and documentation - all under one roof.
 - **Cost Efficiency:** Our offshore engineering model delivers top-tier quality at competitive pricing.
 - **Fast Turnaround:** Optimized workflows and automation reduce lead times significantly.
 - **Data Security:** All projects are handled under strict NDA and data protection protocols.
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- Global Delivery: We support clients across the , Europe, Australia, and Asia, providing round-the-clock communication.

For more details, please visit <https://www.ibizexpert.com/detail/design-and-automations-services-ahmedabad-360787>
