

# Computer Aided Designing and Drafting (CADD) services for Mechanical Industry



Our service portfolio includes CADD services, paper to CADD conversion services, 2D to 3D CADD conversion, design and development of system or sub-system, validation, tooling, part sourcing, manufacturing support and Mechanical CADD drafting/design to editable CADD formats (DWG, DXF, DGN, AutoCAD, etc.)

We can take up projects in any formats like PDF, TIFF, GIFF or JPEG files or hand drawn sketches, scanned images, pictures, prototypes and photos. The final output file is delivered in an editable multi-layer CADD file that is fully compliant to the defined standards, with proper layering in DWG and DXF formats. Our professionals are experts at CADD softwares like AutoCAD, SolidWorks, Mechanical Desktop, Autodesk Inventor, ProEngineer Wildfire etc.

Outsourcing Mechanical CADD services can be a great tool for the engineering and manufacturing industry, production engineers, design engineers, mechanical engineers and fabricators and provides a quick project turnaround and significant cost savings.

## Quick Contact

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## 2D Drafting

Analytix offers a range of 2D Drafting services for mechanical engineers, mechanical engineering firms, consultants, production engineers, manufacturers, fabricators, designers etc. which will make the engineering process and layout of products easier. They include the following:

### Paper to CADD

- › Paper Copies of Drawings
- › Hand Sketches
- › Hand Scribbles
- › Photographs
- › Raster Images

### Conceptual Sketches to Working Drawings

- › You provide us with one or more suitable concept sketches in PDF, TIFF or CADD files format and we will deliver a quick turnaround in the form of working drawings

### Assembly Drawings

- › 2D Drafting of mechanical parts and assemblies from preliminary design data
- › Accurately scaled and proportioned mechanical component fabrication drawings
- › Mechanical equipment layouts and product installation drawings
- › Photographs
- › Mechanical schematics, sections and detailing

### BOM Creation and Drawing

- › Bill of materials for assemblies that ultimately make it easy for you to plan inventory levels and Raster Images
- › 3D Assembly Drawings
- › 3D Mechanical Design
- › 3D Design and Modeling

### Fabrication Drawings

- › Fabrication Drawings
- › Drafting of mechanical components like pressure vessel, heat exchangers, etc.

### Piping and Instrumentation Diagrams

- › We generate P and ID diagrams with the symbols, sizes, layers, fonts and the data associated with the valves, equipment, and instruments as per the standards required by you



## 3D Modeling

Analytix offers a range of 3D Modeling services for mechanical engineers, mechanical engineering firms, consultants, production engineers, manufacturers, fabricators, designers etc. which will make the engineering process and layout of products easier. They include the following:

### 3D Modeling from 2D CADD / Scanned / Hand Drawings

- › Conversion of hand-drawn sketches, design concepts and drawings into impressive 3D Models as per your requirements

### 3D Sectional Views

- › Engine Block Assembly
- › Hot Heat Exchanger
- › Pipe Section

### 3D Assembly Modeling

- › Assembly modeling of automotive components like chassis, clutch, frame, car body and engine block
- › 3D Modeling of automated assembly line
- › Modeled aviation parts
- › Exploded CADD drawings of assembled parts for consumer products such as toys, electronic goods etc.

# The Analytix Advantages

## ► Savings

Costs associated with the CADD component of a project can be reduced by up to 40%, directly improving project profitability.

## ► Focus

Our services liberate your staff from the mundane data design work associated with CADD, allowing them to add real value to the bottom line.

## ► Access to Professional CADD Services

Many smaller business owners cannot afford full time expertise in this industry-specific arena. The skilled professionals at Analytix are dedicated to this market, are highly trained and provide a wealth of industry-specific knowledge that can be applied to any project.

## ► Avoid Hiring, Training and Recruitment Hassles

Our CADD service alleviates the many hassles related to hiring, training and recruitment of in-house CADD professionals. With us, companies can manage tasks efficiently and avoid extra hiring at the same time.

## ► Web Based Job Management System

We have developed an industry-specific job management system that allows our clients to submit and monitor the status of any project being worked on. This system also incorporates an archival document management system that allows projects and their designs to be stored electronically.

## ► Electronic Document Management

Our job management system also allows clients to electronically store, back-up and archive important project data, so that they do not have to maintain data separately.

## The Process



A design job is created by our client using our Web based job submission system. The client uploads napkin drawings and/or related material to the job.



Analytix produces the first revision of the required output using hand sketches, equipment lists, original and/or mechanical drawings.



Client reviews the design and submits change requests via the Web based job management system.



Analytix produces the final design incorporating all the changes required by the client.



## How It Works

Once a client has signed on to our services, our U.S.-based coordinator will train one or more staff members on our Web based job management system. Typically this coordinator works with clients to define new jobs, track their progress until users are familiar with the Analytix job management system. The Web based system is easy to use allowing jobs to be submitted and tracked as the work is carried out.

**1. Authorized engineers at client locations create new projects and upload inputs such as hand sketches and equipment lists using the Web.**

**2. The Web based system is designed in such a way that you can share files and manage active and archived jobs easily.**

Home | Active Projects | Archived Projects 4/17/2009 2:24:25 AM | Logout

Home >> Add Project

ADD PROJECT

Fields mark as (\*) required

Project Id  Hedberg #

Project Name

Customer Name  [ Select Client ] Edit

Address

Engineer  Edit

Sales Person  Edit

Project Manager  Edit

Date Created 4/17/2009 2:24:56 AM

Due Date  4/20/2009 Revision # 0

Priority  Normal

Subject

Instructions

Refresh Save Cancel

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Home | Active Projects | Archived Projects 4/17/2009 2:20:09 AM | Logout

ACTIVE PROJECTS

New Project Archive Project Edit Project Delete Project

Records : ☒ Show projects needing action Page 1 of 1

Client	Prj. Id	Due Date	Priority	Last Event	Project Name	Client	Created by
<input checked="" type="checkbox"/>	08-41771	4/6/2009	Normal	Memo	Exercise Room Upgrades		
<input checked="" type="checkbox"/>	09-42444	03/31/2009	Normal	New Project	Classrooms 1-4		
<input checked="" type="checkbox"/>	09-42265	03/28/2009	Normal	New Project	Homeland Security and Emergency Management		

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**3. Clients can easily track changes as well as communicate information to the Analytix team using project management features of the system.**

UPLOAD & DOWNLOAD DOCUMENTS

Select Upload Category

☒ Original Drawings (.dwg, .log) ☐ Hand Sketches (.pdf) ☐ Equipment Lists (.pdf, .xls, .xlsx)

☐ Architectural Drawings (.pdf) ☐ Client Files (.dwg, .pdf, .log) ☐ Others (\*.\*) All Files

☐ Markups (.pdf) ☐ CAD Deliverables (.dwg, .pdf, .log)

☐ List all project files

Browse Remove

Add

Upload List Files Download All

File	Download	Size(KB)	Created	Modified
08-41771 CAD 02.pdf		164	04/10/2009	04/10/2009
08-41771 CAD 01.pdf		165	04/10/2009	04/10/2009
08-41771 CAD 04.dwg		2150	04/10/2009	04/10/2009
08-41771 CAD 03.dwg		882	04/10/2009	04/10/2009
08-41771 EquipmentList 02.pdf		220	04/09/2009	04/09/2009
08-41771 Hand Sketch 01.pdf		171	04/09/2009	04/09/2009
		2064	04/06/2009	04/06/2009

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