



WINSUN GLOBAL TECH
&
**WINSUN RESEARCH , TRAINING AND SKILL
DEVELOPMENT CENTRE**

A Business Introduction

WINSUN GLOBAL TECH

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INTRODUCTION

We wish to introduce as '**WINSUN GLOBAL TECH**' – a team of qualified professionals in the field of Design and Simulations. The team WINSUN comprises a group of professionals, focused in CADD, CAE, Simulations, Product design, Education, training & resourcing services with an emphasis to add value to the young professionals

We are engaged in delivering business solutions to current competitive technology in various engineering domains. We offer value engineering and consultancy services to sectors namely Aircraft, Turbo machinery, Automotive, Wind mills, heavy Engineering Equipment's etc.

We are also operational in delivering the skill development programs for fresh engineering professionals to expertise in specific engineering domains to meet the high industry expectations

We are geared with rich expertise in Competency Development, Product Engineering, Design and Simulations, Technical Evaluation and Research

WINSUN GLOBAL TECH has unmatched capabilities across Technology towards Mechanical, Civil, Architectural Engineering fields and maintains a leadership in all its major lines of business.

We are leveraging new age technologies to transform ourselves, and virtually every aspect of the lives of people we touch

WGT much is a diversified global engineering services company with in the hi-tech sectors of Aero Engines, Aerospace, Automotive, Turbines, Heavy Engineering

WINSUN GLOBAL TECH has risen to become a leading CAD/CAM/CAE solutions and additive manufacturing technologies provider

Our strength allow us to help industries optimize their mechanical product Design/ Engineering processes there by making them more innovative, efficient, cost effective and time saving.

We add value to our customers' engineering / R&D processes by our skills, knowledge and domain expertise. We have a track record delighting our customers, and their customers!!

We are an interdisciplinary team with expertise in multi-physics simulations in conceptual design and design calculations, finite element, (FEM including non-linear and explicit dynamics), multi-body dynamics (MBD- including flex bodies, SiL/ HiL / MiL), computational fluid dynamics (CFD including conjugate heat transfer, fluid structure interaction, hypersonic flow), electro-magnetic (EMAG -including coupled electro-magnetic-thermal-structural simulations), fatigue damage durability (including creep, high temperature fatigue, thermo-mechanical fatigue), and manufacturing process simulation (including casting, metal forming, powder forming), and multi-disciplinary optimization (including shape & topology optimization and parametric optimization).

We provide collaborative R&D / engineering services, in a business model that fits our customer needs.

SERVICES

1. MECHANICAL ENGINEERING SERVICES

2. CIVIL ENGINEERING SERVICES

3. ARCHITECTURAL DESIGN SERVICES

MECHANICAL ENGINEERING SERVICES - CAE,CAD

CAE -Computer Aided Engineering

Winsun Global Tech Services has the unique CAE team. We are supporting towards R & D purpose. The team helps undertake various engineering analysis tasks.

- *Static Analysis*

Linear & Non Linear (Material/Geometry/Status) | Design Optimization | Composites Modeling | Hex Meshing | Etc.

- *Fatigue Analysis*

Fracture Fatigue Analysis | Metal Fatigue Analysis | Weld Fatigue Analysis | Vibration Fatigue Analysis | Low Cycle Fatigue Analysis | Spectral Fatigue Analysis | Composite Fatigue Analysis | High Cycle Fatigue Analysis | ASME Fatigue Analysis.

- *Dynamic Analysis*

Vibration Analysis | Spectrum Analysis | Harmonic Analysis | Modal Analysis | Seismic Analysis | Buckling Analysis | Frequency Response Analysis | Rotating Machinery Analysis | Transient Dynamic Analysis | Explicit Dynamic Analysis | Drop Analysis | Crash Analysis | Metal Forming Analysis | Deep...

- *Thermal Analysis*

Thermal-Structural | Coupled Field Analysis | Steady State Analysis | Conduction Analysis | Transient Analysis.

- *CFD Offerings*

Chemical Species Transport | Phase Change Models | Under Hood Thermal Analysis | Conjugate Heat Transfer | Multiphase Models | Discrete Particle Tracking | Dynamic Mesh Motion | Radiation Problems | Solar Loading | High Speed External Compressible Flows | Shock Wave Prediction | Electronics...

WINSUN GLOBAL TECH – DOMAIN SERVICES

AEROSPACE

AUTOMOBILE

HEAVY ENGINEERING

INDUSTRIAL MACHINERY

MARINE & OFFSHORES

POWER & RENEWABLE ENERGY

PUMPS & COMPRESSORS

TURBOMACHINERIES

CAD

WINSUN GLOBAL TECH services offers solutions across the value chain from create to validate to build and support making it a unique one stop solutions provider for Mechanical Engineering Services. We have a proven track record of offering end-to-end Mechanical

Engineering solutions for customers in all major industry verticals helping design faster, reduce cycle times and achieve higher ROI with your product development efforts

- **AUTO CAD WORKS**

- ✓ 3D to 2D CAD conversions
 - ✓ Raster to vector CAD conversions
 - ✓ Legacy CAD data migration and conversion
 - ✓ 2D drawings from hand-drawn sketches and images
 - ✓ Photographs to CAD Conversion
 - ✓ CAD redrafting & Conversion
 - ✓ AutoCAD to Archibald conversion
 - ✓ ArchiCad to AutoCad conversion
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- Expertise in working with AutoCAD, CATIA V4 and V5, Solid Works, etc.
 - Stringent quality processes and security measures
 - CAD Conversion Services rendered by expert Draftsmen and Engineers
 - Editable 2D CAD Drawings for prototyping
 - Accurate 3D CAD drawings that allow you to share concepts
 - Realistic Mechanical 3D Product Animation

CIVIL ENGINEERING SERVICES

For a building or construction project to be successful, accurate construction drawings are quite important. We specialize in construction engineering drawings, 2D construction plans, construction documentation, CAD construction drawings, and construction BIM services, making us the perfect partner for all your construction drawings.

The team at Outsource2india (O2I) has extensive experience in using [software](#) such as AutoCAD, Architectural Desktop (ADT), ArchiCAD, and Revit among others that help in creating detailed construction drawings. With our detailed construction drawings, you will be able to analyze, plan, and execute floor plan designs, elevations or reflected ceiling planes successfully. We provide drawings for various types of construction work such as commercial buildings, residential buildings, new buildings, renovation of old structures, and so on

With an accurate and professionally created construction drawing, you will be able to:

- Estimate and plan the cost for each segment of the project
- Get clear instructions about the exact quantity of materials needed, the required layout and expected final project cost
- Document each aspect of the project and use it as a reference in the future
- Identify impending issues and recommend appropriate solutions

Construction Drawing Services by Winsun Global Tech-WGT

Our experts can create a construction drawing for each phase of your construction, such as:

- Presentation and site plan drawings: contour mapping and layouts
- Shop drawings: small portable structures, doors, cabinets, modifications to existing buildings and prefabricated berthing quarters
- Master plan drawings
- Product drawings
- Section drawings
- Architectural engineering drawings
- Fabrication drawings
- Construction approval drawings
- Steel construction detail drawings
- Re-drawing of existing construction drawings

Architectural Design Services

we develop 3D walkthroughs that display architectural 3D models in the right proportion and scale, along with life-like textures, materials, colors, and finishes.

Building project in high resolution, they will be easily able to make their purchase decision. Our detailed 3D walkthroughs can help you visualize your construction from different perspectives. This can help you easily incorporate additions and deletions to your design at the conceptual stage itself. Outsource to us today and use our interactive 3D walkthrough animations to take your customers on a virtual tour of your architectural property.

Our Areas of Expertise

Our 3D animators are experts in developing 3D interactive walkthrough animations for a wide range of properties, such as high-rise buildings, IT parks, apartments/ condos, resorts, shopping malls, airports, churches, amusement parks, schools, villas, hotels, and special economic zones, among others.

We can also create 3D flyovers to depict the function and design of bridges, ships, aircraft, dams and other structures. Our team has in-depth experience in animating futuristic interiors and concepts. With one of our 3D [architectural animations](#), you can accurately showcase and view a visual representation of complex engineering concepts.

3D Walkthrough Services

1. Residential Buildings

We can create 3D architectural animations of individual houses, villas, farmhouses, apartments, complexes and development projects.

Commercial Buildings

Our team of designers has extensive experience in developing 3D flyovers of offices, educational institutions, hospitals, shopping malls, pubs, restaurants, and hotels, etc. Our animators can also animate different aspects of a building, such as the lifts, escalators, or other moving objects. We can also incorporate product-specific information into the multimedia animation.

2. Industrial Walkthroughs

We can develop a 3D flythrough that will give you a realistic feel of an industrial plant or building complex, and also include the specific processes that particular industry is going to handle.

3. 3D Virtual Art Galleries

If you have been unable to sway your customers with 2D catalogs, it's time to move on to a 3D virtual art gallery, where you can showcase art to clients across the globe.

4. Office Furniture Animation

We provide superior quality 3D Architectural Walkthrough services for your workspace furniture covering it from all possible angles. Our holistic approach to interior office design combined with state-of-the-art 3D walkthroughs provides your office furniture (your chairs, desks, tables, storage cabinets, drawers, workstations, display boards etc.) the best possible look and display.

Virtual Room Design Services

1. Interiors

By using multimedia 3D animation, we can virtually display the interiors of a building by portraying the exterior lighting depending on the orientation of windows, seasonal changes, diurnal variations, and the local latitude. We also take into account interior lighting, such as light from each fixture, self-illumination of indoor objects, and the reflection of light within the room.

2. Exteriors

We begin the 3D walkthrough with an animation of the structure of the building along with the building materials that would be used. The 3D architectural animation also includes depictions of the external environment, such as the landscape, trees, fences, hedges, roads and the surrounding neighborhood.

Why Choose WINSUN GLOBAL TECH for 3D Walkthroughs?

1. Advanced 3D Animation Software

Our designers can bring your 3D walkthroughs to life-with the right color, light, and movement-by employing pro applications such as AutoCAD, ArchiCAD, Maya, Maxon, and 3DMax. If needed, we can even use your custom-built software.

2. Versatile Team

Our 3D flyover team includes experienced engineers, graphic designers, technical analysts, and data entry experts who combine their skills and talents to develop impressive virtual room designs, 3D flyovers or 3D walkthroughs within a short schedule.

3. Infrastructure & Technology

Our infrastructure includes advanced Mac and Windows PCs, high-resolution monitors, and other important tools that help our employees to deliver on their promises. To ensure data security and faster upload and download of files, we use VPN (Virtual Private Network) and FTP (File Transfer Protocol). With the help of our advanced infrastructure and technology, we can create high-quality 3D walkthroughs while shortening the product life cycle.

4. Experience

Over the years, we have helped many developers, architects, and realtors with their 3D architectural rendering, 3D modeling, and 3D visualization needs at an affordable cost.

WINSUN RESEARCH ,TRAINING AND SKILL DEVELOPMENT CENTRE

Our unique & innovative concept brings the Corporate & Fresh Employable Talents under one roof, for training solutions that would enhance the skill sets & knowledge spectrum of the participants. With expertise in Technical skill development and developing analytical and logical thoughts, we are one of the premier emerging finishing school in India

Our finishing school concept of training shall impart better career prospects to young aspirants to constantly strive for better corporate placements and professional growths. Our industry expertise not only nurtures trainee technical capabilities, shall also be inspirational and motivational for his career projection. We are sure that the trainees will have fun in learning the advanced technical needs to meet industry expectations to the fullest

This document is a proposal on WINSUN GLOBAL TECH services offered to your institution. The training services from our end aids the students in normalizing their processes during the transition period from Campus to corporate, and will stabilize their internal personality development, core aptitude skills, communication etc

WINSUN GLOBAL TECH is pleased to present the college this Proposal for finishing school Services which explains in details the various training and program modules, support mechanism, roles and the commercials

We assure “Best-In-Class” training services and all time attention to help the institution to meet its Industrial and corporate training objectives

Overview

In 2013, WINSUN GLOBAL TECH began its journey as startup entity by likeminded corporate professionals, who wish to share their industrial expertise and knowledge to upcoming fresh engineering graduates. Our group has analyzed that there was a lot of potential with young professionals, who lack following skills like presentation, verbal, quantitative, and most of all the ability to foresee things differently, their by most of them don't climb the ladder of success

We have been leading the way in the training off Campus and Corporate. We are a corporate certified company adopted good quality procedures and policies. The major objective of implementing finishing school concept was to be a catalyst in the process of transforming dreams to destiny and to make it affordable for every fresh graduate across all barriers so that he/she can transform their dream into reality

WINSUN GLOBAL TECH provide a highly conducive and congenial environment to facilitate the process of learning. A state-of-art infrastructure and latest amenities are offered by the institute for better concentration and learning. The general atmosphere of the institute is highly comfortable and encouraging to inspire for striving higher. The Institute provides all the equipments to make the Teaching-learning process more motivating

The overall services we provide are

- Type certification in Design and Simulations
- Engineering Consultancy and Evaluation
- Basic and Advanced course in Ansys, Hypermesh
- Competency Development
- Corporate Training and Internship Program

VISION & MISSION

WINSUN aims at imprinting quality education through skill development, scales up technical competency in engineers to meet present Industry demands through best practices, Engineering service and Research

Empower young engineers across domain challenges to meet state of the art requirement in technology world. Enrich engineering standards and professionals to enhance their skills and knowledge for engineering prophecy

"To emerge as Global leader in pursuit of Excellence and offer the best in class Design and Simulation engineering services"

OUR VALUES

Innovation - In training methodology, Technical Development and Research

Integrity - In planning and execution to present industry needs

Excellence - In quality standards for all the services offered

Ethical - To do business with good professional ethics

OUR OBJECTIVES

- Assist students develop/clarify their academic and career interests, and their short and long-term goals through individual counseling and group sessions
- Assist students develop and implement successful job search strategies
- To plan and organize career talks & personality development programs
- Work with faculty members, department Heads and administration to integrate career planning and academic curriculum as well as internship programs
- Serve the engineering community by providing access to our wide activities & career resources
- Empower students for long career decision-making and provide resources and activities to facilitate the career planning process
- Act as a link between students and the employment community and build awareness regarding future career options
- Up gradation of the students technical skill sets commensurate with the expectations of the industry
- Assist reputed companies in recruiting right candidates as per their requirements

EXERCISE

The knowledge and passion of the trainers is the most important criteria in the transformation of learning. All training material were developed by our experts based on the

findings of the needs of the customers and extensive discussions with the concerned industry people in the group

Each training program is fully customized to meet the client's needs. The entire team works to design a program that is relevant to meet the client needs. They understand the requirements and challenges and train on the key skills and knowledge that will make a difference

Each program is interactive, participatory and includes readiness and reinforcement activities. The Training programs are specially designed and executed by experienced trainers, who are familiar with entire requirements of clients

We as a team always strive for the best. Our curriculums have been prepared after an intensive research and study so that it can be easily grasped by the students at all levels

INDUSTRY SCENARIO

India's knowledge economy is growing at a rapid pace and along with it there is a growing demand for qualified talents. Organizations are looking for talent that can be readily deployed. However, industry today is facing a huge challenge in finding talent that can be readily deployed

WINSUNTeam understands this challenge and works in partnership with institutions to help bridge this gap in the complete cycle of technical development-training. Team WINSUN assures to enhance Professional skills to students ready for the industry through finishing school concept

EMPLOYABILITY ENRICHMENT TRAINING

Employability Enhancement Program of WINSUN GLOBAL TECH off Campus to Corporate is an initiative to bridge the gap that exists in our mainstream education and the Industry Expectation and also the challenges faced by Student's community to survive in the fiercely competitive Corporate World. The program is an effort to bring together Government, Student Community, Corporate and Universities/Educational Institutions under one roof

ADOPTION

An in-depth step wise training program goes parallel with your academic, right from first semester. It ensures one to one counseling, complete grooming and makes your students confident enough to go through the rigors of campus placement process

COUNSELLING

We provide guidance and counseling to the aspirants who wish to pursue a career in Engineering design and Simulation Technology. During the counseling session we try to understand the candidate's requirements and suggest them the courses according to their profile. So, that they can easily commence the course and move ahead

FREE DEMO CLASSES

We provide every student a chance to sit free for initial two classes along with every course, So that a student can judge his comfort level with the subject. We have well-defined course outline which is topical and updated. We have prepared a complete schedule of the training. We always take care that we can maintain simplicity in the training methodology

CURRICULUM

The course curriculum prepared by our team ensures all necessary requirements to enter the design and simulation Industry. It has been designed in such a way that even an average student can utilize it and matchup to the current industry requirements. The qualitative ingredients will surely enlighten professional mental abilities

PERFORMANCE EVALUATION

The performance of the trainees is examined regularly. A separate dossier is maintained. The shortcomings and strengths are meticulously recorded and the student is counseled to perform accordingly. This is one area where we ensure strict participation of students and reveal their level of preparation through scrutiny and interaction with institution faculties

FACULTY AND FACILITY

We at WINSUN have experienced working professionals (mainly from industry background) as our faculties so that they can share their expertise with the student and students will get benefited too. We very much understand the Industry current requirement and tune the students at par with the industry needs. The benefits of learning are quantified through unique and latest teaching techniques

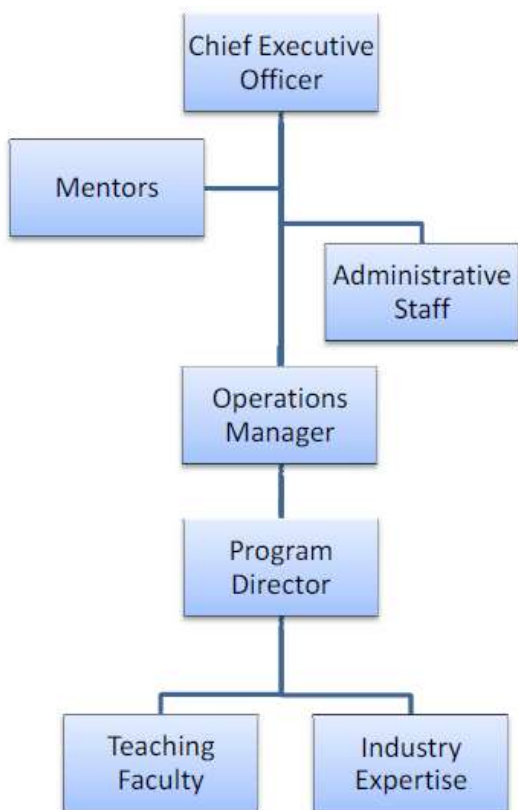
WINSUN GLOBAL TECH and R & D Centre is equipped with following state of the art infrastructure facility

- More than 10nos well equipped High end Computers with HD graphics

- Ansys and Hypermesh Training licenses
- Spacious and well ventilated class rooms with projector facility
- Library and Cafeteria

MANAGEMENT

We wish to present our management hierarchy as below



RECENT KEY DEVELOPEMENTS

WINSUN GLOBAL TECH has recently started Research and Development Centre to offer research oriented services to R & D recognized institutions across the state. We are in process of tie-ups and joint venture with various institutions for research guidance. We are capable to define the research projects and take initiatives to propose project plan for Council of Scientific and Industrial Research (CSIR), Department of Science and Technology

(DST), Vision Group of Science and Technology (VGST), Technical Education Quality Improvement Program (TEQIP) and other research institutes

We are proud to announce that with help of industry professionals and academicians we were successful to present our research papers at National Agency for Finite Element Methods and Standards (NAFEMS) international Conference, 2014 held at Chennai, India.

Following are the titles of our research papers presented at **NAFEMS Conference**, Chennai

“Creep Life Estimation and Fatigue Life Evaluation in Rotor Blade”

“Effect of Stress Concentration on Rotating Shafts with Through Cut outs”

“Structural Analysis of Aircraft Wing FLE (J-Nose) Panel using Mono and Multi core Composite Materials”

“Reliability Assessment of High Cycle Fatigue for the Low Pressure Steam Turbine”

“Thermal Flux Assessment and Drop Test of a Smart Phone – Case Study”

Past Accomplishments

We have successfully completed following programs

Mission VTU- Empower 10000 VTU Engineers: This program was conducted at Government Engineering College, Hassan for Mechanical streams students. More than 80 students were benefited through this program and acquired knowledge in design and Simulation through Ansys

Internship program: This program was conducted at our center for post graduate students of PES College of Engineering, Mandya as per their academic requirement. Students successfully completed the internship based on industry oriented training

CAMPUS TRAINING SERVICES

Our campus training services have following advantages

The **Quantitative skill module** is designed to develop and sharpen

- Subject Basics
- Problem Solving

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- Logical Reasoning
 - Decision Making Ability
 - Lateral Technical Skills
 - Analytical Thinking Skills

The Modules would help in

- Improve problem solving ability in engineering design, product development and real time analysis with simulation
- Improve mental ability to adapt to new challenges
- Sharpen the technical ability to function clearly and improve cognitive skills
- Stretching and reshaping the way we think
- Sharpen the mind and help to process information more quickly,
- Perform multiple tasks at the same time and improve work capabilities
- Communicate and face technical interviews with confidence

This would be a comprehensive training which would help them in cracking all placement papers from hiring majors like GE, Infosys, Lloyds, HCL, InfoTech, UTC Aerospace, L&T, Valdel, Triveni, LM wind, Gamesa, Garrad Hassan, Suzlon, Vestas, Rolls Royce, Quest, and Altair etc

ROLES AND RESPONSIBILITIES

The Roles and Responsibilities of the Institution and WINSUN are explained in details below:

The Institution Responsibilities

Provide Basic Facilities

Team WINSUN should be given full access to facilities during the training period. The facilities should be made available beyond normal working hours (if the occasion calls for)

Project Coordinator

The Institution should appoint a Project/Program Coordinator for coordination with WINSUN for all system and administration related issues

Training Infrastructure

The Institution shall provide facilities for conducting training classes on-site during training duration. This should include classroom, overhead projection system, furniture and

consumables. Movement and accommodation of trainees to the training location is responsibility of the college

WINSUN Responsibilities

WINSUN will be responsible for:

- Providing an exclusive teaching faculty with necessary expertise on subject
- Provide Training as per schedule and engage performance evaluation
- Conduct open session on improvement of training program

OUR CAMPUS PARTNERS

We are proudly associated with following institutions on technical skill development programs

- University Visvervaraya College of Engineering – Bangalore
- University Visweswaraya College of Engineering, Bangalore
- PES college of Engineering, Mandya
- Nitte Meenakshi Institute of Technology, Bangalore
- East West Institute of Technology, Bangalore
- Ghousia College of Engineering, Ramanagaram
- Nagarjuna College of Engineering and Technology, Bangalore
- Dr. B R Ambedkar Institute of Technology, Bangalore
- BTL Institute of Technology, Bangalore
- Nitte Group of Institutions- Bangalorei
- Nagarjuna College of Engineering and Technology- Bangalore
- East Point College of Engineering and Technology – Bangalore
- East West Institute of technology – Bangalore

WINSUN SERVICES

1. CADD Conversions
2. 2D Drafting, 2D to 3D Conversion
3. Industrial Design & Optimisation of Mechanical Components
4. Structural & Dynamic Analysis
5. Simulations
6. FEA approach
7. Analytics Solutions & Hand Calculations
8. Reverse Engineering
9. Autocadd Conversion
10. Product Engineering
11. Technical Staffing
12. Software & Industrial Based Training for Pre Engineers (Mechanical)

ACEDEMIICS

- Type certification in Design and Simulations
- Basic and Advanced course in Ansys Workbench
- Competency Development
- Corporate Training and Internship program

CONTACT US

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