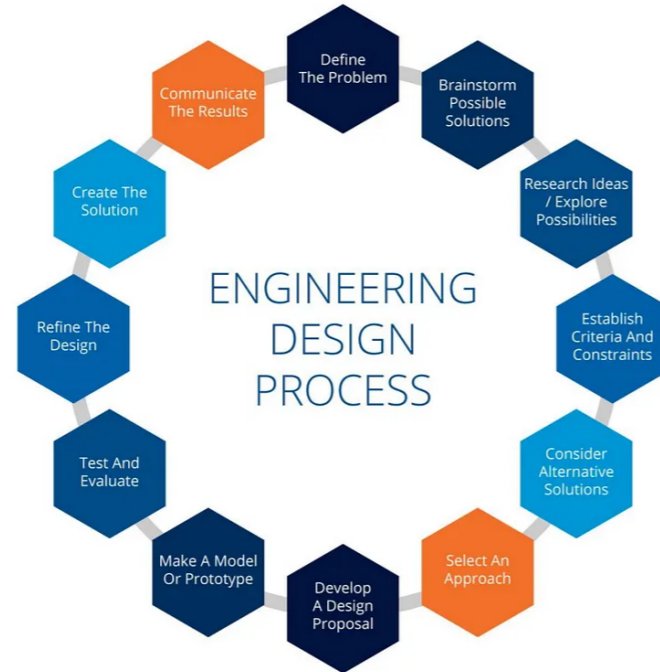


Comprehensive New Product Development

Comprehensive Expertise: Our seasoned professionals guide you from concept development and market research to cutting-edge design, prototyping, and rigorous testing, ensuring your product exceeds industry standards.

Collaborative Partnership: Whether you're a startup or an established enterprise, we collaborate closely with you to transform ideas into successful products, leveraging the latest technologies and methodologies.

End-to-End Support: From overseeing manufacturing to strategic product launch, we provide comprehensive support throughout the entire development process, ensuring a seamless journey from ideation to market success.



Softwares



Our Clients



Approvals & Certification



Registered Address

No.403, Beretena Agrahara,
B Block, 4th Floor, Electronic City,
Bangalore South,
Bangalore, 560100
Karnataka, India

Factory/Office Address

Plot No 47 & 76,
Phase II,
SIPCOT Industrial Complex,
Hosur, 635109,
Tamil Nadu, India



ONE STOP SOLUTION

For your Product Development & Engineering needs

Welcome To Loyal Wingman Technologies Private Limited

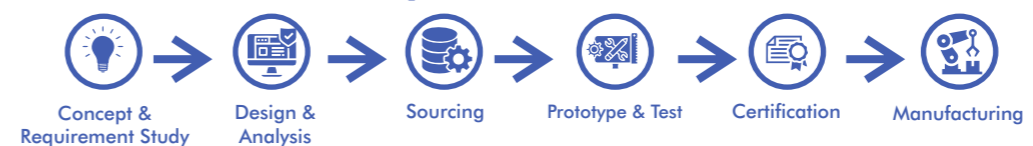
Loyal Wingman Technologies stands at the forefront of engineering innovation, offering premier design and manufacturing services.

Our expertise spans advanced CAD modeling, manufacturing design support, extensive analysis, precision prototyping, and comprehensive product development.

We provide customized, high-quality solutions tailored to meet the unique needs of various industries. We Specialized in Aerospace & Defense

Our comprehensive approach ensures each project meets the highest standards of quality, efficiency, and innovation. Partner with us to transform ideas into reality.

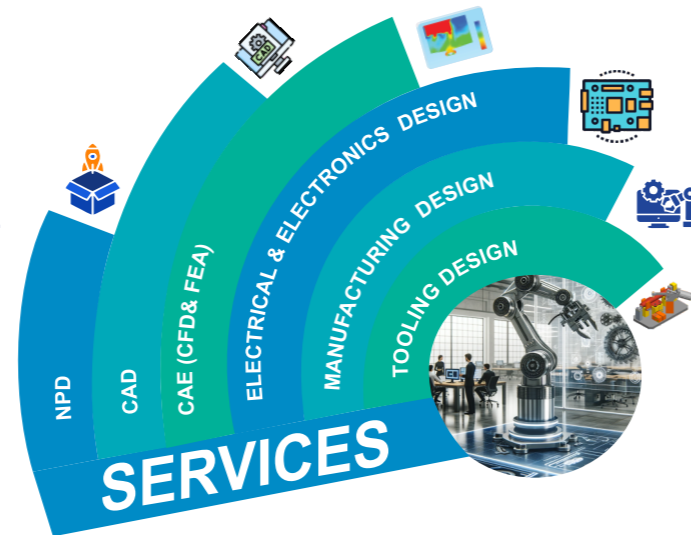
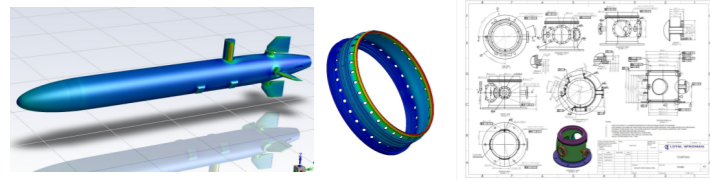
One Stop Solution Provider



Karthikkraja.G
Chief Executive Officer

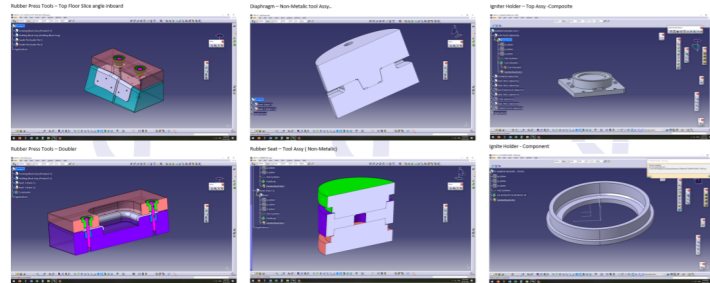
Precision in CAD Modeling & Analysis

Creating precise component and assembly models for seamless integration. Providing comprehensive technical drawings to facilitate smooth supplier collaboration. Utilizing advanced CFD and FEA simulations for thorough stress, fatigue, and dynamic load testing.



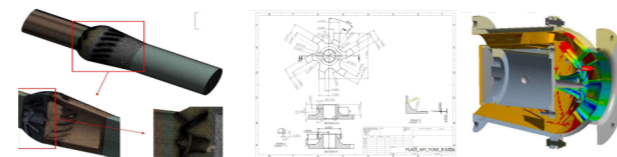
Advanced Tooling Design

Performing detailed design of tooling to generate accurate 3D models for manufacturing. Designing mechanical parts, welding, and machining fixtures with exceptional precision. Designing assembly, framing jigs, open or closed jig, Hydraulic fixtures and pneumatic fixtures.



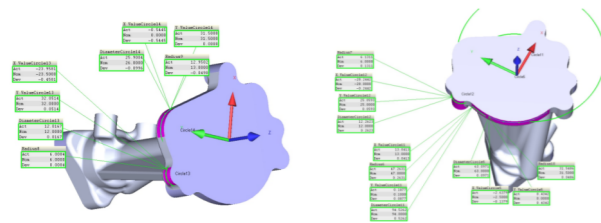
Cutting-Edge Prototyping & Manufacturing

Developing innovative proof-of-concept and engineering prototypes with advanced 3D printing technology. Offering complete vendor selection and management solutions for streamlined manufacturing. Creating detailed control plans and stage inspection plans to ensure high-quality production.



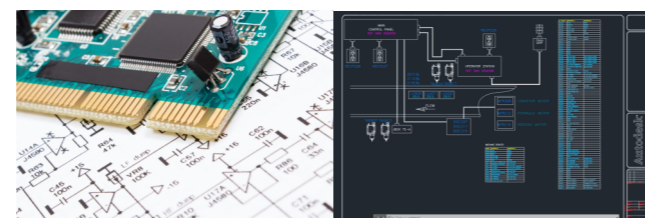
Advanced Reverse Engineering & 3D Scanning

Performing detailed part scanning to generate accurate 3D models for manufacturing. Designing 2D to 3D & vice versa, drafting and manufacturing operation sheets generation with exceptional precision. Preparing comprehensive manufacturing documentation for seamless production processes.



Expert Electrical & Electronics Design

Crafting detailed circuit diagrams and selecting the best components for optimal performance. Designing precise wire harnesses to ensure efficient and reliable electrical systems. Generating schematic designs and 3D models to streamline PCB assembly.

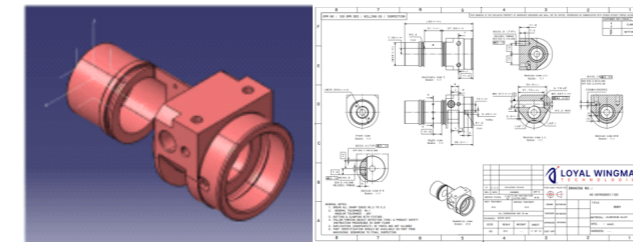


Manufacturing Design Services :

We create detailed stage drawings for seamless operation visualization from start to finish. Utilizing advanced 2D and 3D design software, we ensure each part meets stringent quality standards, optimizing the production process for efficiency and precision.

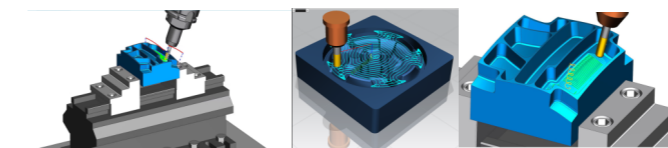
Resourcefulness:

Our team excels in analyzing structural components such as beams, plates, and frames using diverse materials including metals, plastics, and composites, ensuring superior quality in every stage of production.



Computer Aided Manufacturing(CAM)

Loyal Wingman Technologies excels in custom machine programming to meet client part needs efficiently. We combine production and programming expertise to design optimized process stages, utilizing advanced 3D design software for intricate machining programs. The holistic approach reduces production time while enhancing output quality, ensuring exceptional results that meet industry standards.



Technical Deliverables :

- ▶ Manufacturing Operation Sheets (MOS)
- ▶ BOM
- ▶ Process flow chart
- ▶ Method process sheet
- ▶ Control plan
- ▶ Balloon drawing
- ▶ PFMEA (as per customer template)
- ▶ Fixture design and drafting
- ▶ Stage models & stage drawing in stage wise
- ▶ CNC programming (Product, process files)
- ▶ Inspection sheet
- ▶ Tool setup drawing for special tools
- ▶ Tool reference sheet, if required
- ▶ Operation instruction sheet
- ▶ Model Based Definition (MBD)

PERFORMANCE	CAPABILITY
We offer competitive pricing, fast turnaround time, and excellent customer support.	We have a pool of experienced and qualified engineers who can handle complex and challenging problems with high accuracy and efficiency
We offer free trial order for new customers.	

Why Loyal Wingman Technologies?

- One Stop Shop for Design, Dev, Build, Delivery
- Reduce Your Engineering Cost
- Improve Your Profitability
- Help Accelerate Time To Market
- R&D Company Supporting End - End Solutions
- Design For Manufacturing And Testing (Dfx) and Scaling For Mass Production

Domain	Aerospace	Defense	Automotive	Energy
Technologies & Product Worked with	Damper Bearing Wingbox Joint Analysis Plate FWD and AFT Yoke Plate HPC Stator LP Compressor Inlet	Hydro Dynamic Analysis of AUV Bearing Shaft Spacer Duct Assembly Rod End Assembly	Fuel Spray Nozzle Assembly Coupling Unit Clamping Method Analysis	L Component Flow Analysis Bracket Assembly of Oil Tank