

AdvanceTech Group

a **advancetech**
KEEPS YOU AHEAD



Welcome AdvanceTech

Keeps You Ahead

**We Accelerate Your
Project Timelines**



Website

www.advancetech.in

**Since
1995**



INTRODUCTION

Drawing inspiration from the "Make in India" initiative, AdvanceTech has established itself as a leader in both software and hardware development and manufacturing ... With strong engineering teams across key facilities in **Mumbai, Bengaluru**, and **Vadodara**, the company is fully equipped to take products from prototype to full-scale production.

AdvanceTech specializes in delivering qualified solutions in critical sectors such as Military Aerospace , Industrial Automation, and Nuclear Radiation Monitoring. As India accelerates its focus on nuclear power and advanced monitoring technologies, AdvanceTech is strategically positioned support and grow alongside the nation's industrial ,Military Aerospace ,and energy ambitions.

30+
Years of
Success

100+
Projects

500+
Customers

Opportunity

Defense

- 3rd largest defense budget globally – ~USD 75 Bn (₹6.2 Lakh Cr).
- Electronics share rising: avionics, communication, rugged boards, embedded SW.
- Make in India mandate: 68%+ of procurement to be domestic by 2030.
- DRDO, HAL, BEL, DPSUs are scaling demand for indigenous subsystems & obsolescence-proof solutions.

Nuclear

- 100 GW Nuclear by 2047 (from ~8 GW today)
- ₹20,000 Cr allocated to build 5 Small Modular Reactors (SMRs) by 2033
- Types in development: 200 MWe Bharat SMR (PHWR-based), 55 MWe SMR, 5 MWt gas-cooled reactor for hydrogen
- Construction timeline: 60–72 months post-sanction



Partnership Benefits Overview

Discover the key advantages of our collaboration.

- **Cost advantage:**
- Reduce design and manufacturing costs by up to **50%**
- **Speed to market:** Shorten project timelines by up to **60%**
- **Enhanced innovation:** Accelerate delivery of innovative features
- **Scalable engagement:** Start with a small pilot project , **with 150+ Skilled SW and HW engineers**





Group Companies

1995

Mumbai

150+

Founded by
Technocrats

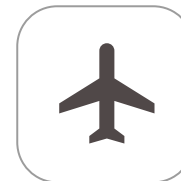
HQ, with offices in Bengaluru,
Hyderabad, Kolkata, Delhi
,Dubai UAE

Employees.
(and growing!)

Industries



Pharma



A&D



Automotive



Heavy Industry



High-Tech



Medical Devices



BFSI



Nuclear

Management Team



Pradip Kulkarni
Group chairman and MD



Nijesh Parmar
Director and CTO



Vaishali Singh
Director



Shubham
CFO



Jagan
Head Mil Aero



Ramkrishna
Nuclear Energy



Prasad
Delivery Head



Dr Jehan Nicholson
Nuclaer



Rajesh
IIOT Head

Partners

NAII
MIRION
IDEAL
CORMET
ASCON
REDLION

**Nuclear
Research**

Radiation
Detection
Monitoring
Corrosion

Products

Mil Aero

Rugged CPU
I/O
1553
VPX VME

Industrial

SCADA
MES
SENSORS
IOT
Panels

BFSI

Voice Loggers
Turrets
Software
BI

Education

Teaching
Equipment

Services

Hardware
Software Development
Offshore SLA and MSA
Design engineering
L1 ,L2,L3 Support
Managed Services

Excellence Center Mumbai



Excellence Center Bengaluru Excellence Center Vadodara



Group Companies

INVANSYS
INNOVATION TO THE CORE

ae
ADVANCETECH EMBEDDED
FUTURISTIC DESIGNS

DigiConics
INTELLIGENCE DELIVERED

a **advancetech**
INTERNATIONAL

Joint Ventures History

iconics
Make the Invisible Visible™

kontron

CYBERTECH
INTERNATIONAL

Our International Success



Mirion Technologies France

Mirion signed, with its Indian partner AdvanceTech, a Memorandum of Understanding with Electronics Corporation of India Ltd (ECIL), the leading player in this market, to support the rapid growth of India's nuclear sector. This partnership will leverage Mirion's expertise in advanced radiation monitoring systems and ECIL's local manufacturing and market insights to jointly fabricate, assemble, test, and supply radiation monitors. Through this collaboration, both companies aim to address the demands of India's nuclear infrastructure expansion.



North Atlantic Industries USA

North Atlantic Industries and AdvanceTech Showcase First Board Built in India: A Milestone for 'Make in India' and Strengthening India's Defense Modernization Efforts "This achievement celebrates India's growth as a global leader in indigenous manufacturing and technological self-reliance," said Leo Fridley. "NAI is proud to play a role as a technology partner in this journey, helping AdvanceTech deliver critical capabilities to India's defense sector while maintaining the highest standards of performance and reliability."



Ideal Aerosmith USA

Ideal Aerosmith Inc., headquartered in Grand Forks, and Advancetech Embedded Systems, a leading company in India, have signed a Memorandum of Understanding (MOU) to establish a joint venture (JV) in India. The collaboration aims to leverage the synergies of both companies to address the "Make in India" initiative and cater to Ideal Aerosmith's customers in Asia, the Middle East, and select parts of Europe. The JV's primary focus is to achieve 50 to 60 percent local content in its products and deliver world-class quality and support to customers in Europe and Asia.

Engineering & Manufacturing Capabilities..

We Accelerate Your Mission to Success



Hardware and Software Skills



Mixed Signal Design

- Precision analog and digital design with isolation
- FPGA / SoC based data acquisition and streaming
- Zynq UltraScale+ and other SoCs
- High speed digital designs
- USB 3.0, SPI, SDIO, I2S etc
- Custom IP Core development and testing

PCB Layout and Analysis : DFM/DFT

- HDI multi layer PCBs Layouts with blind & buried via
- Pre-Post SI simulation
- PI and Thermal simulation
- High Density Interconnect (HDI)
- Flex and Rigid Flex
- PCB Yield improvements
- Support for automated/semi-automated testability
- Test coverage improvements
- Cost Reduction

Embedded software design

- Bootloaders
- Bare metal peripheral drivers
- Operating systems (Embedded Linux, Android, FreeRTOS, Keil RTX, VxWorks RTOS)
- System interfaces, protocol stacks, development of device drivers
- Hardware dependent code and application code



Industrial IoT

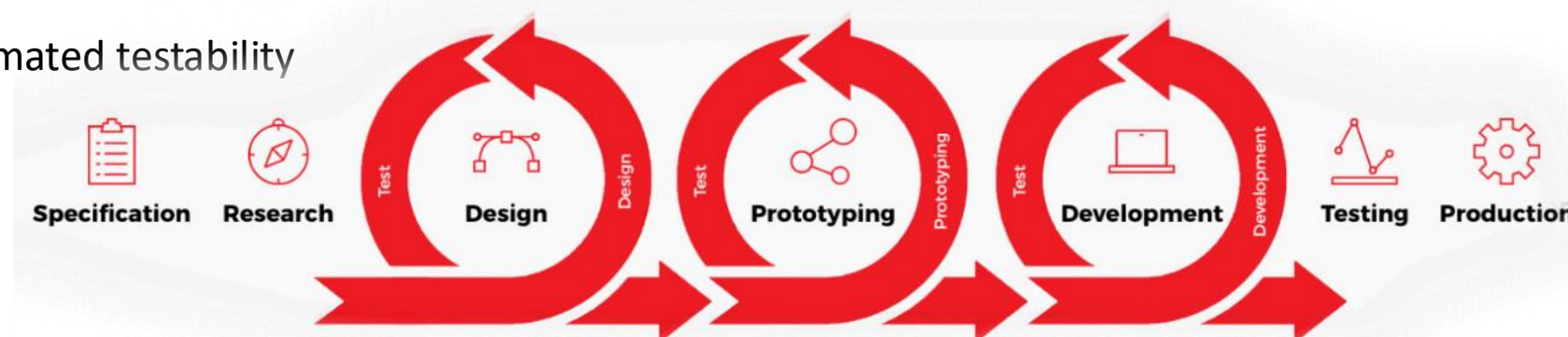
- Evaluate your current Product & Service Portfolio
- Architect your IoT Solutions
- Build & Deploy your IoT Solutions
- Build and Integrate Applications, IoT platforms
- Integrate, Deploy & Manage Platform & Applications
- Manage, Analyze

Hardware design

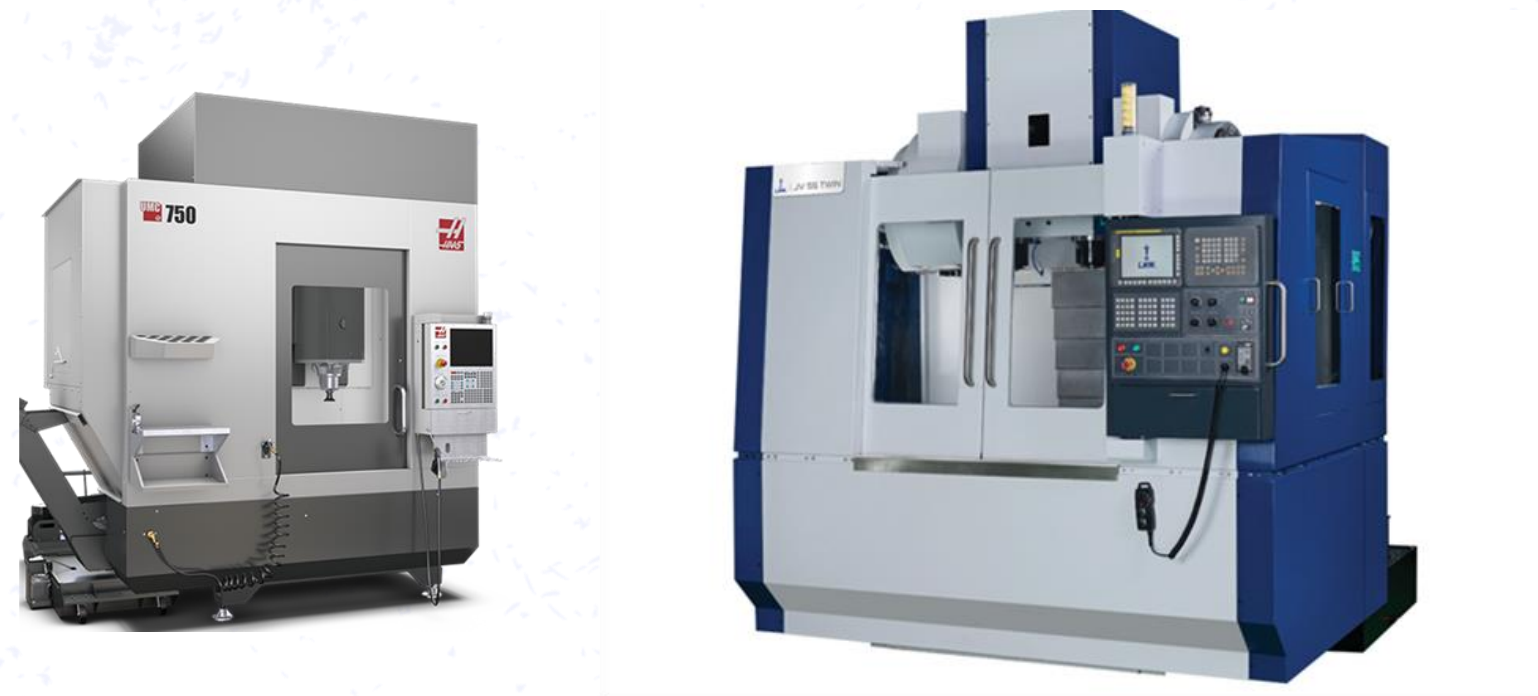
- Multilayer PCB design
- Analogue design – sensor front ends,
- Audio, power amplifiers, DACs, ADCs
- High speed (Serial ATA, DDR3, DDR4, USB3.0, CSI, DSI)
- Embedded processors (Cortex-A5, A8, A9, A53, A72)
- Microcontroller applications (Cortex-M3, M4, M33)
- Controller (Raspberry Pi, BeagleBone)
- Low power systems (MSP430, Cortex-M0, nRF52)
- Digital Signal Processing (TMS320C55xx, TMS320C674x)
- Industrial systems with MODBUS, CAN and Ethernet
- Design for EMC

Software Design

- Operating System and BSP / SSK kit functional testing
- Software functional/non-functional testing
- customize middleware or integrate modules for logic
- Device Driver development for standard peripheral .



Capabilities



AdvanceTech delivers **turnkey solutions** from **Embedded Computing to Environmental Control Systems**, enabling customers to move from concept to productization with speed and reliability.

- Core Expertise:** Embedded Computing, Signal Processing, Power, RF Design, Thermal Solutions.
- In-House Teams:** Hardware, Software, FPGA, Mechanical Design.
- In-House Manufacturing:** Aluminum Vacuum Brazing, Welding, Precision Machining, EMS.
- Quality & Certification:** AS9100D certified, ensuring global aerospace and defense compliance.

With design, engineering, and manufacturing under one roof, AdvanceTech ensures faster development cycles, cost efficiency, and rugged, high-reliability products for Aerospace, Defense, and Industrial markets.

Positioning for Success



Digital Factory

Rugged and Embedded Systems

DIGITAL FACTORY

ERP BASED TRACK A TRACE

IOT BASED QUALITY CHECKS

PEOPLE INDEPENDENT MANUFACTURING

EXPORTING TO FRANCE AND US

DESIGN TEAMS

EMBEDDED SOFTWARE TEAM

MECHANICAL FABRICATION



NAII-A TE Support

Rugged and Embedded Systems



NAII Excellence Centre

FIRST LEVEL SUPPORT

NAII FACTORY ATP AT BANGALORE

FACTORY TRAINED PEOPLE

MODULE LEVEL EXCHANGE

POST SALES SUPPORT

Nuclear Energy and Research

From Detection to Protection
For Safer Tomorrow



Miron Technologies Excellence Centre

Excellence at cost of 1 million USD

Spread in 6000 SFT facility

State of the art systems from Mirion

Up skill Training and Hands on for Users

Make in India with value add

Digital Transformation

From Sensors to Servers

Control Instruments FACTORY

Spread in 10,000 SFT factory in Gujarat

Manufacturing Control Panels, Skids

Manufacturing , Sensors Mil grade

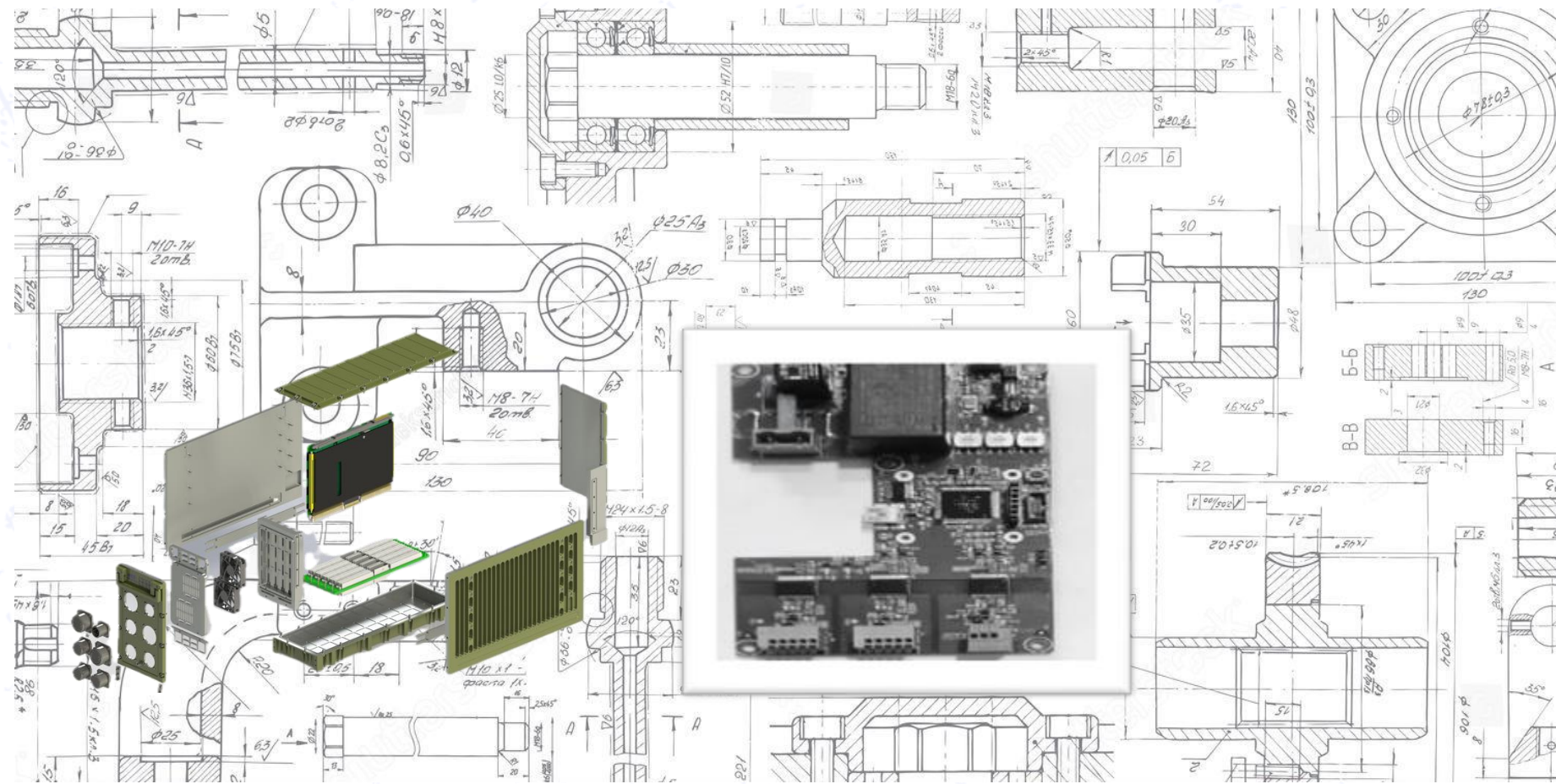
Calibration facility of world standard

Panels Sensors Scada MES Software

Design Engineering



Accelerate Your Products Timelines



01 **Mechanical Design Engineering**

Expanding our expertise to include **mechanical design** enhances our capabilities in creating comprehensive solutions.

02 **Electronics Boards Development**

Our focus on **Processor** and **FPGA systems** allows us to deliver faster, more efficient designs tailored to customer needs. IOT Edge Devices and Embedded software

03 **Software Development**

Our Team of 150+ Skilled Engineers and Project Team excel in Delivering Frontend Backend Cloud solutions with excellent UI/UX. The Embedded software developers and Testers help the time lines and user experience.

Make in India



1. Value Addition in Manufacturing:

1. Under the "Make in India" initiative, the company manufactures systems in India.
2. Value is added through activities such as mechanical work, electronics, system integration, calibration, and design engineering.
3. The company is an authorized exclusive distributor for some of the world's leading companies.

2. Manufacturing and Acceptance Test Facility:

1. The company boasts a 10,000 square feet manufacturing and acceptance test facility.
2. This facility is equipped to conduct tests and calibration for all kinds of system integration tasks.


1. Installation Support Services:

1. The company has a factory-trained team of engineers.
2. They provide installation and support services, including 24x7 availability for critical installations.
3. There are local spares maintained and repair facilities equipped with the necessary equipment to meet strict Service Level Agreement (SLA) timelines.
4. Engineers are available to visit customers within India, neighboring countries, and international customers in the Middle East, Africa, and Europe.

2. Joint Ventures:

1. Advance Tech and its founders have established successful joint ventures.
2. Partnerships include a SCADA software company from the USA, a scientific instruments company from France, an embedded systems manufacturer from Germany, and a voice logger company from the Netherlands.
3. These joint ventures focus on providing cost-effective manufacturing, manpower, and infrastructure.
4. The ventures leverage 28+ years of goodwill and a large customer base (1000's of customers) for easy market access.



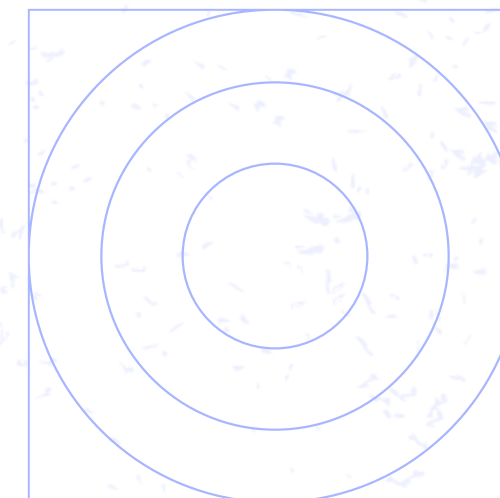


About AdvanceTech Group

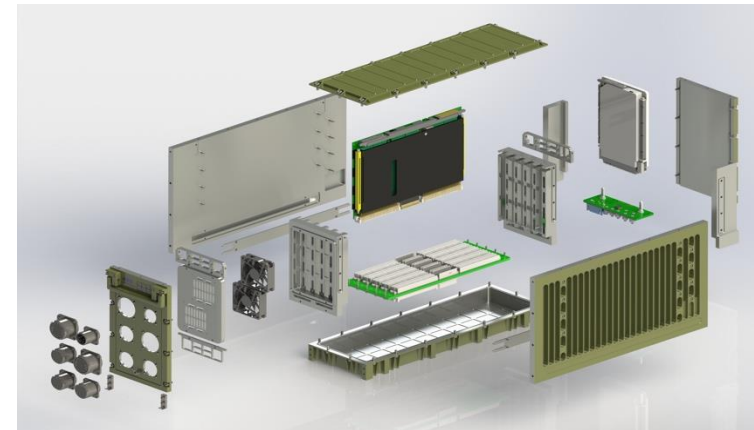
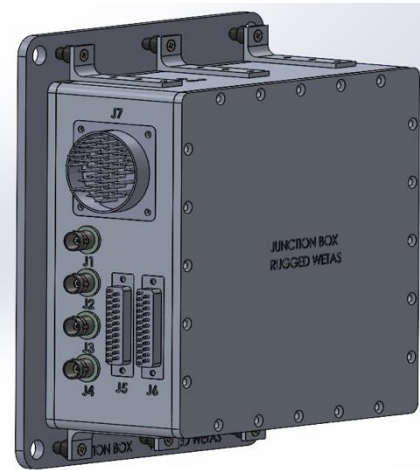
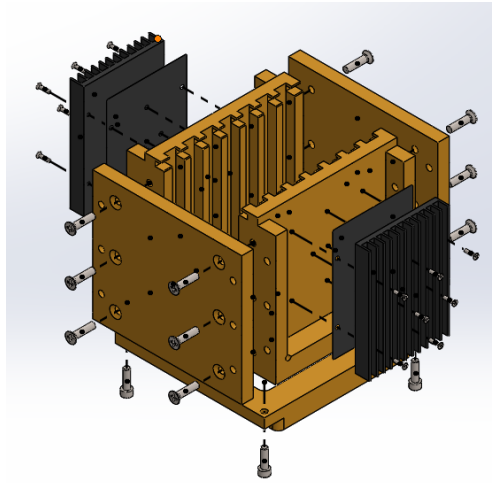
- Engineering the Future.
- Delivering Speed.
- Driving Profitability.

Leaders in
engineering and
manufacturing
solutions

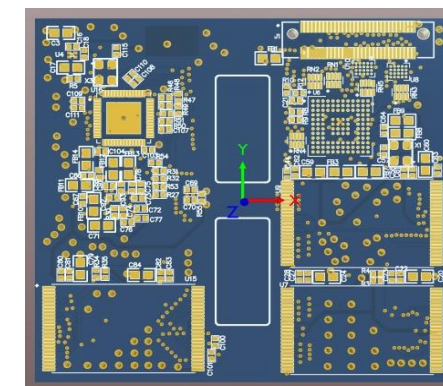
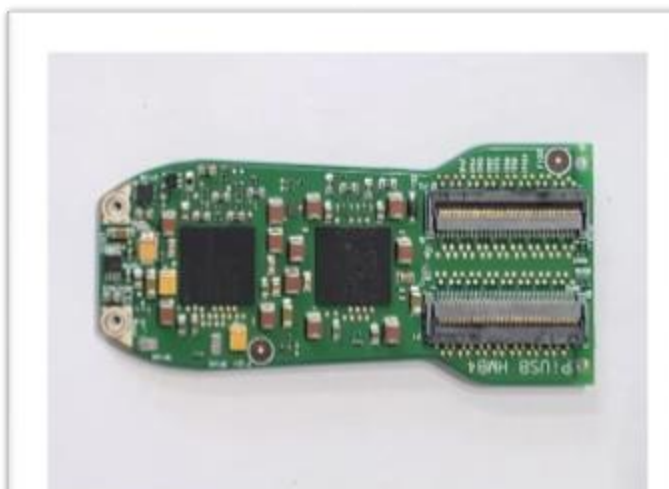
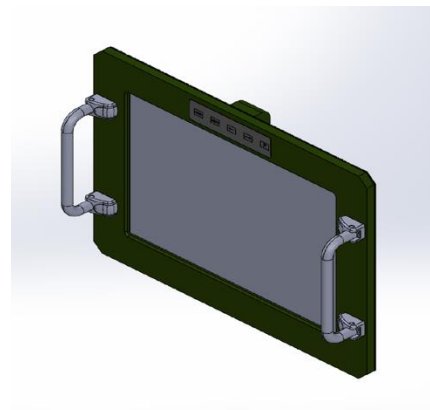
We specialize in **innovative design engineering** and manufacturing, delivering cutting-edge technology solutions for electronics and mechanical systems.



Some Of Our Product Designs



Request
For Details



Together, we can achieve greater success!



LET'S MEET TO DISCUSS OUR COLLABORATION OPPORTUNITIES!

