About us

Apollo Microsystems Pvt. Limited, estd in 1985 has a rich heritage of advancing technology in the field of industrial automation, Automotive, Defense and Aerospace Electronic systems. AMS is a Dynamic and fast diversifying company, engaged in execution of turnkey projects with track record of 29 years.

What do we do

Our hardware design team has extensive industry experience and expertise in designing hardware and software; including packaging of electronic hardware for various verticals. Our competent board design and engineering practices make us a unique choice for our customers. We have immense working knowledge on various controllers, processors, DSPs, FPGAs etc. With a combined industry experience of over 1000 man years, the Company has a niche in the market and is the leading service provider in board design for the ADS markets. The broad spectrum of experience which we have built over a period of 29 years enables us offer end to end solutions as a composite package, all under one roof.

Services

Hardware Design & Engineering
- Board & system design: Concept to complete product development
- DSP/FPGA based design, Single Board Computers
- Design, Circuit Simulation, Analysis & Prototyping
- Diagnostics, BSP, Driver Development
- Re-engineering and miniaturization

Embedded Software Design Development & Sustenance
- Complete Software Life Cycle Support
- Software Requirement Specifications Generation
- Modeling and Simulation
- High Level and Detailed Design Implementation
- Host Interface Development
- Platform Development
- Re-Platforming

Testing and Analysis Services
- Code Reviews
- Inspection of software development and test documents
- Functional and structural coverage and testing
- Integration testing [software-software and software hardware]
- Reliability Analysis
- MTBF Analysis
- Signal Integrity Analysis
- Power Analysis
- Timing Analysis
- Loading Analysis

Testing Services
- Software test plan for software and hardware integration testing
- Test process for software and hardware integration testing
- Functional and structural coverage & testing
- Test reports for software and its testing
- Test case and test reports as per Verification & Validation requirements
## Embedded System Development Engineering Services

### Industries and Markets
- Aerospace, Defence & Space
- Industrial Automation, Automotive & Railways
- Utility, Energy & Power
- Homeland Security

### Design for Certification
- CE, FCC, EMI / EMC, MIL, IEC, ROHS, DNV, and ATEX Certification

### Middleware Layer
- Codecs & DSP/GPU Algorithm Development for Various Audio, Video and Images
- Open Source Application Integration and Customs Back-End Application Development

### Application Layer
- Application Framework Porting & Integration, UI Design and 3rd party Application Integration

### BSP Layer
- Board Design Bring Up, Boot Loader and File Development, Real Time Operating System, Device Driver and OS Porting Services
- RTOS Porting: Linux, Windows CE, Android, QNX and VX Works

### Expertise
- Instrumentation Systems, Signal Processing, Control Electronics, Power Electronics, RF
- Telemetry Systems, Automotive & Telematic Systems

### Interfaces
- Audio / Video, Display, Camera, LCD, Touch Screen, Fingerprint scanner, Joystick, IR Remote, GPS, NFC, Storage, Sensors, Others

### Connectivity
- Ethernet, GigE, USB, VME, PCI, cPCI, PCIe, MODBus, profi-Bus, CAN, MOST, PMC, WiFi, Blue Tooth, GSM

### Architecture
- MCUs-8051, PIC, 196, 386, 486, ARM
- MPUs-ARM, TI, Renesas, Freescale, DI, Broadcom, Intel, CORTEX, Net Silicon
- TI and ADI DSPs
- FPGAs-Xilinx, Altera, Atmel, Lattice, Actel