

#### **Aboutus**

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

### **Testing and Analysis Services**

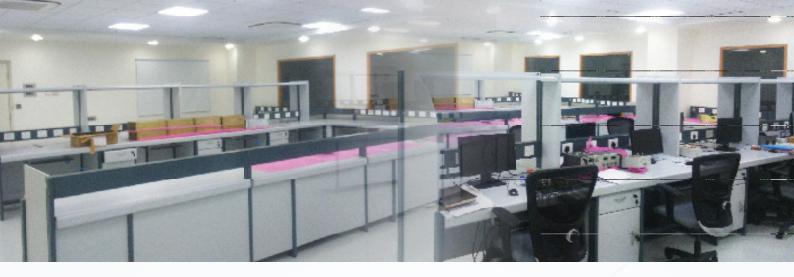
- ◆ Code Reviews
- Inspection of software development and test documents
- ◆ Functional and structural coverage and testing
- Integration testing [software-software and software hardware]
- ◆ Reliability Analysis
- ◆ MTBF Analysis
- ◆ Signal Integrity Analysis
- ◆ Power Analysis
- ◆ Timing Analysis
-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

# **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 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 Protocol Library, Application Framework, Services for CAN, USB, RS232/485, Ethernet, Wireless LAN, Blue tooth RFID,2G / 3G-GSM/GPRS, 2G / 3G Software Stack,1553B, ARINC

**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

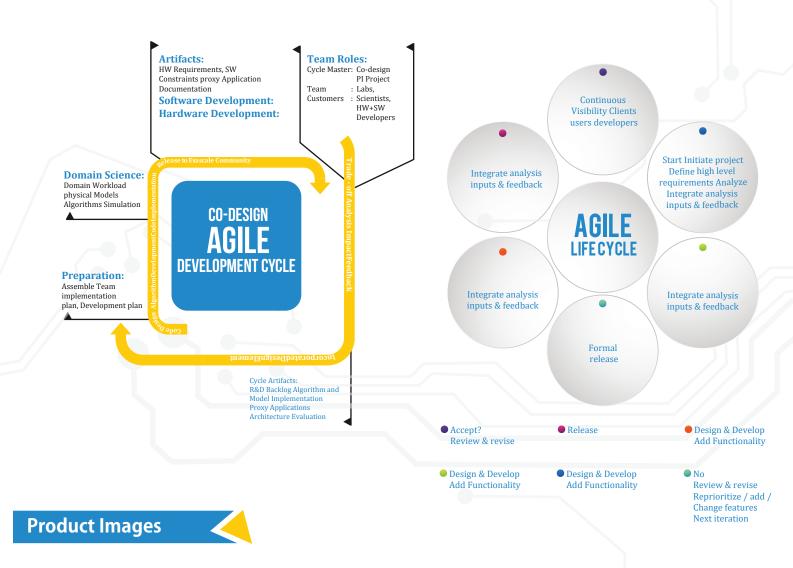
ARCHITECTURE

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



















































# **Apollo Microsystems Limited**

# Registered Office

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