

Detroit Engineered Products (DEP) is an Engineering Solutions and Product Development company. Since its inception in 1998 in Troy, Michigan, USA, DEP is now a global company with footprints in Europe, China, Korea, Japan and India. DEP uses the accelerated and transformed product development process, accomplished by utilizing our proprietary platform, DEP MeshWorks, which rapidly reduces the development time of products for all segments.



Smarter solutions. Realized.

Rapid time to market of new products across several industry sectors such as automotive, defense, aerospace, energy, oil & gas, consumer products and heavy equipment is a unique value proposition delivered to clients via DEP's world class engineers and the DEP MeshWorks platform.

DEP is working on semiconductor market in end-end Integrated Circuit Design from specification to GDSII.



SOFTWARE/ FIRMWARE

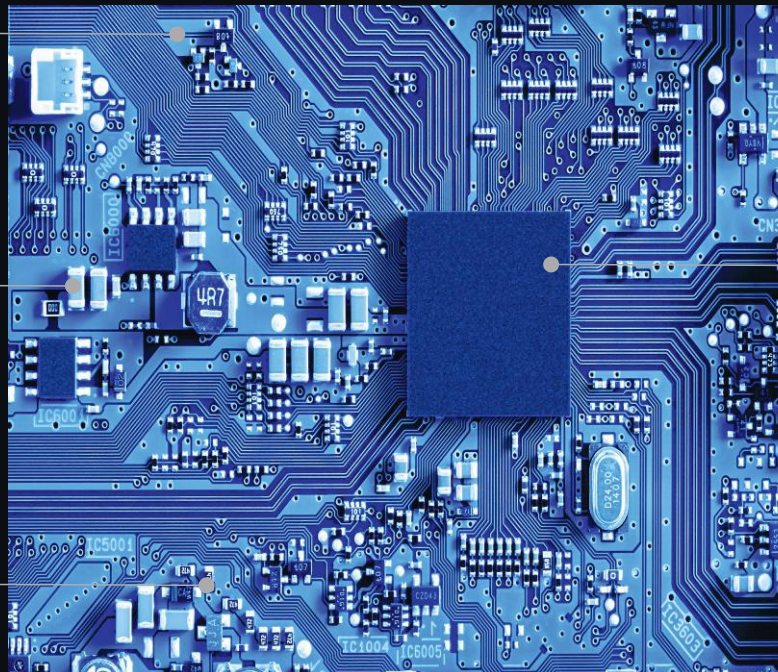
- BSP
- Device drivers
- RTOS
- Muxing software

HARDWARE

- Microprocessors
- Microcontrollers
- ASICs
- FPGAs

HARDWARE

- PCB
- Memories
- RS232
- RJ45

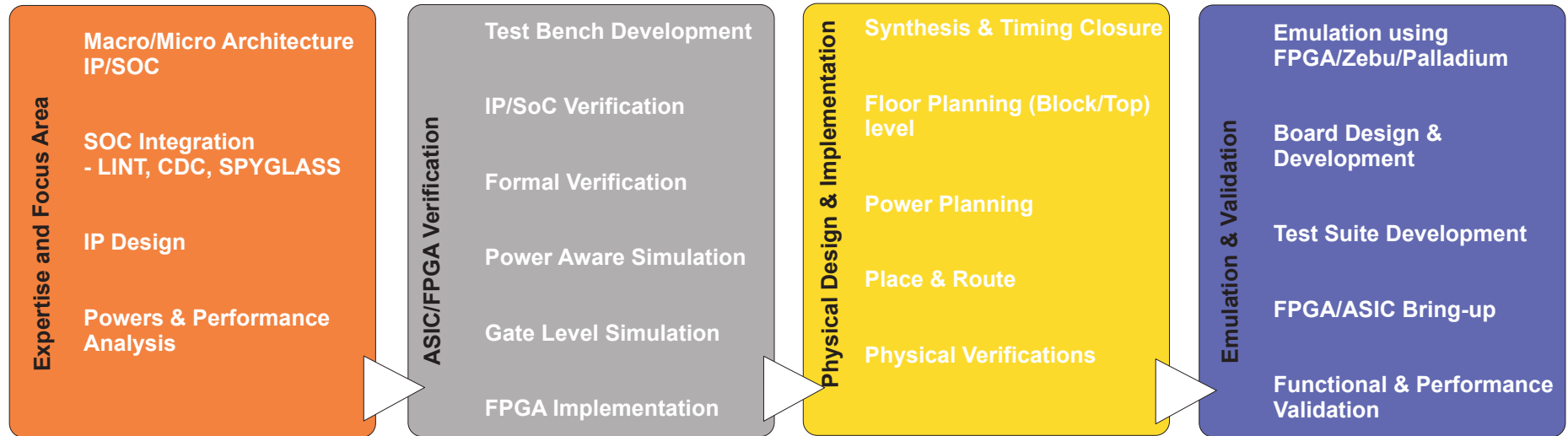


PROTOCOLS

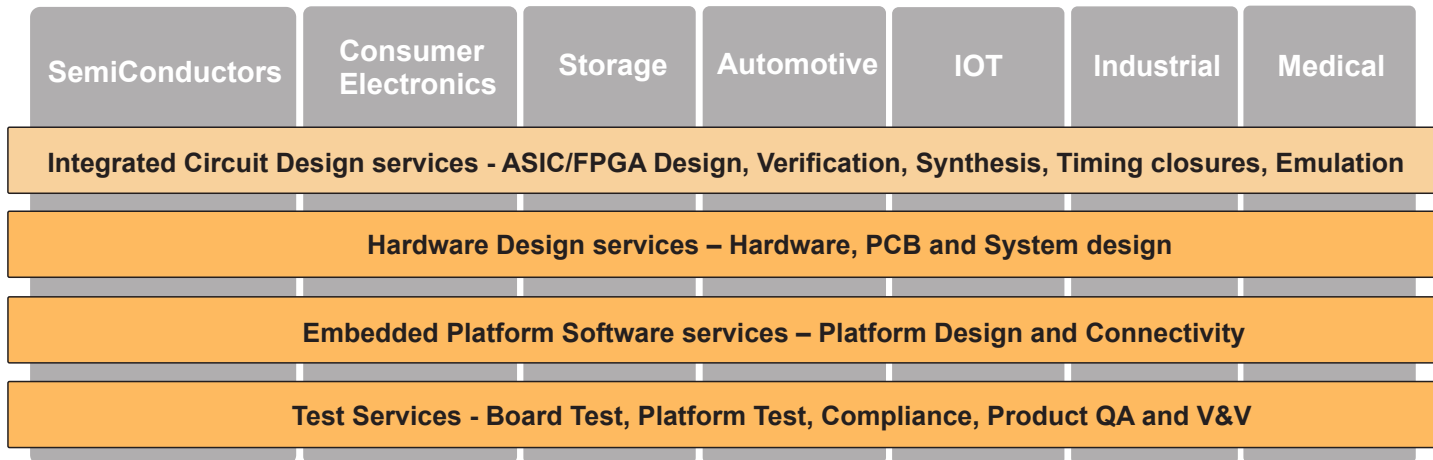
- Ethernet
- CAN
- ProfiBUS
- FieldBUS

Integrated Circuit Design Services

Expertise and Focus Area



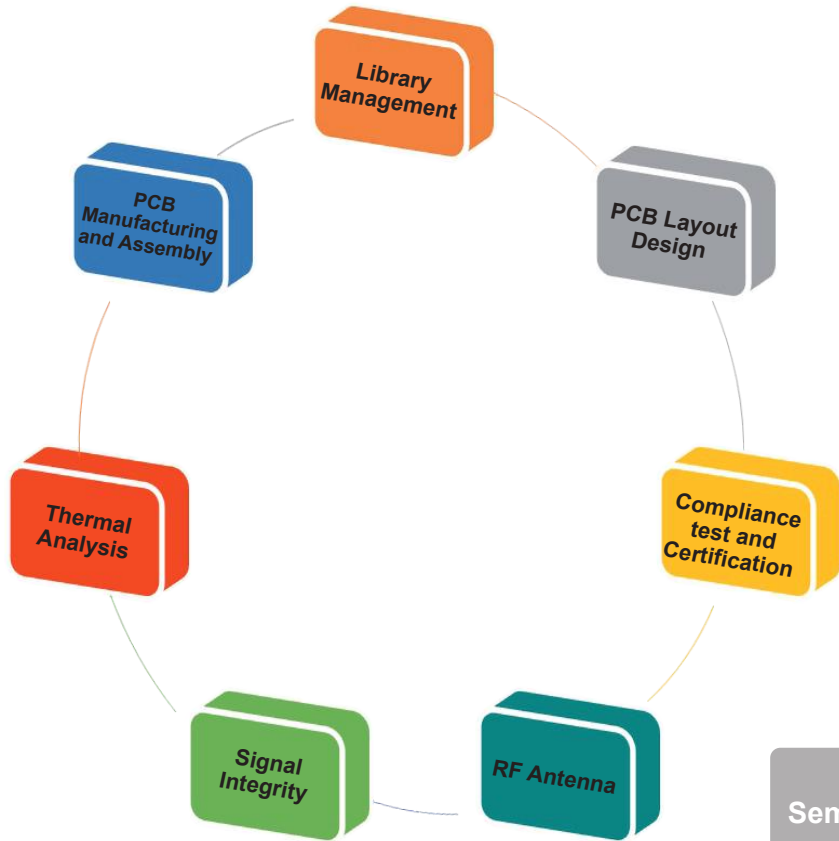
IPs	HDLs	Methodology
USB 2.0/3.0	System Verilog	OVM
SATA	Specman	UVM
PCIe	C, C++	eRM
DDR3/4	Verilog	VMM
LPDDR	VHDL	
MIPI		
Ethernet		



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 CA : Detroit Engineered Products Inc, 3838 Carson St, #336, Torrance, California 90503, USA. | Phone: 248-227-8997
 INDIA: DEP India Pvt. Ltd., #2/86, 7th Avenue, Ashok Nagar, Chennai – 600 083, India. Ph: +91 44 42141453

Hardware and System Design Services



- Expertise is multiple layer board designs, High speed board designs, Flexi PCB designs
- PCB layout and component engineering
- PCB manufacturing and assembly
- Signal Integrity and Thermal analysis
- Industrial, Automotive, Connectivity designs
- RF and Antenna designs
- FDA, CE compliance Test

PCB Design Tools

OrCAD, PADS,
Eagle, Allegro,
Altium

SemiConductors	Consumer Electronics	Storage	Automotive	IOT	Industrial	Medical
Integrated Circuit Design services - ASIC/FPGA Design, Verification, Synthesis, Timing closures, Emulation						
Hardware Design services – Hardware, PCB and System design						
Embedded Platform Software services – Platform Design and Connectivity						
Test Services - Board Test, Platform Test, Compliance, Product QA and V&V						



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Embedded Platform Software Services

OS

- Linux, Windows, OS X, Android, Meego, FreeRTOS, ThreadX, QnX, eSOL, Symbian, WinCE

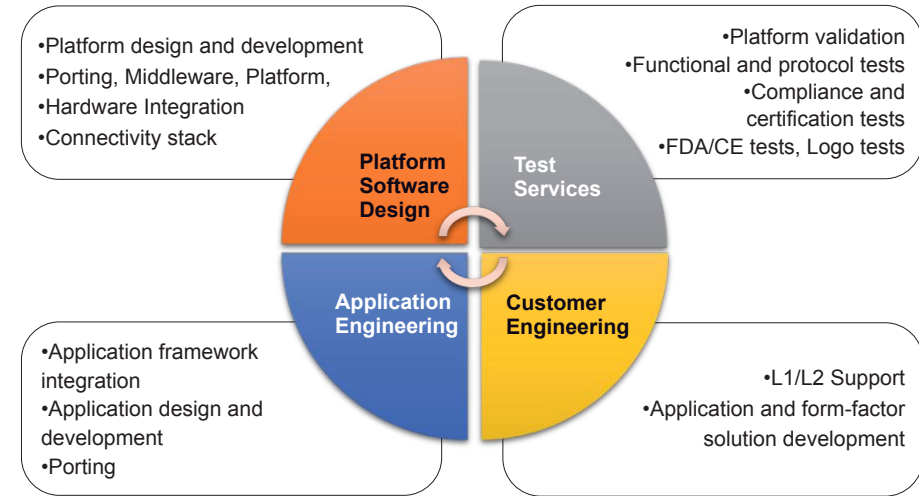
Processor

- ARM, Microchip, ATMEL, Qualcomm MSM, LPC series, PB11MPCore, TI OMAP Freescale iMX and MXC300-30, Cortex Mx, A8, Luminory Micro LM3S37483748, Intel x86, E6xx and Platform IOH

Tools

- IDE, Build and Debugging tools
 - Microsoft Visual Studio, Custom specific assembler & debugger, Realview ICE and Trace, BullsEye, Purify & Pure Coverage, Eclipse, Source Insight, IAR wok-bench, Jlink, Greenhills Toolchain, eSoL tool chain, Lauterbach

Board, Platform Bring-up, Product Design



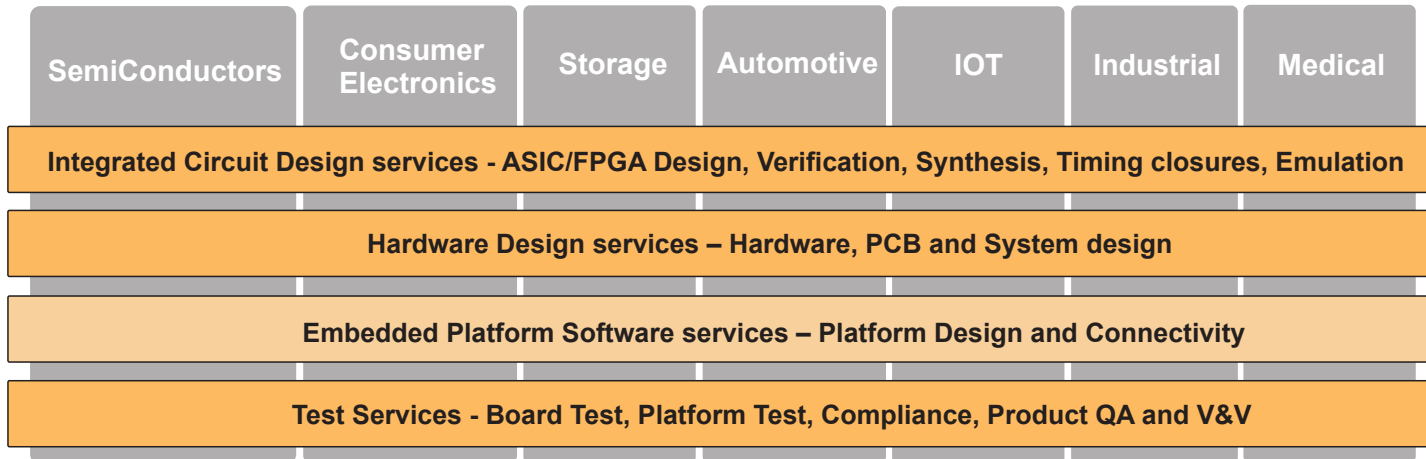
Programming

- C/C++, Python, Perl, Shell, Symbian SDK, Windows SDK

End to End Services

Product conceptualization to conformance testing. Embedded software development

- Board bring-up and BSP, Device Drivers, Protocols, Middleware, Applications on variety of operating systems, Processors and Devices



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Test Services



Hardware debugging tools

- CRO, Logic Analysers, Logic probes.

Protocol Analysers

- SAS/SATA
- SerialTek Jammer/Analysers, Lecroy
- Wireless Protocol
- Ellisys USB, BT, Wifi Protocol analysers

WIFI test solutions from Tektronix

IXIA Traffic generators

DEP should be considered for the Qualified test engineering resources and test solutions for IC test and Product engineering test at various levels, due to partnership with various test labs such as TUV, CPRI and Sameer.

Expertise

Hardware Verification & Validation	Platform Validation	Compliance	Product System Validation
<ol style="list-style-type: none"> 1. Signal and Power Integrity 2. DC, Timing, Thermal 3. EMI/EMC 4. Functional and interfaces tests 	<ol style="list-style-type: none"> 1. Diagnostic tests 2. BSP Validations 3. Platform component tests 	<ol style="list-style-type: none"> 1. Wireless compliance 2. Compliance to spec 3. Coexistence tests 4. Certification tests 5. Logo tests 	<ol style="list-style-type: none"> 1. Compatibility tests 2. Benchmark tests 3. Performance tests 4. Temperature, environment and vibration tests

SemiConductors	Consumer Electronics	Storage	Automotive	IOT	Industrial	Medical
Integrated Circuit Design services - ASIC/FPGA Design, Verification, Synthesis, Timing closures, Emulation						
Hardware Design services – Hardware, PCB and System design						
Embedded Platform Software services – Platform Design and Connectivity						
Test Services - Board Test, Platform Test, Compliance, Product QA and V&V						



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