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.

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.
Integrated Circuit Design Services

Expertise and Focus Area

- Macro/Micro Architecture
- IP/SOC
- SOC Integration
  - LINT, CDC, SPYGLASS
- IP Design
- Powers & Performance Analysis

Test Bench Development
- ASIC/FPGA Verification
- IP/SoC Verification
- Formal Verification
- Power Aware Simulation
- Gate Level Simulation
- FPGA Implementation

Synthesis & Timing Closure
- Floor Planning (Block/Top) level
- Power Planning
- Place & Route
- Physical Verifications

Physical Design & Implementation

Emulation & Validation
- Emulation using FPGA/Zebu/Palladium
- Board Design & Development
- Test Suite Development
- FPGA/ASIC Bring-up
- Functional & Performance Validation

IPs
- USB 2.0/3.0
- SATA
- PCIe
- DDR3/4
- LPDDR
- MIPI
- Ethernet

HDLs
- System Verilog
- Specman
- C, C++
- Verilog
- VHDL

Methodology
- OVM
- UVM
- eRM
- VMM

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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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

PCB Design Tools
- Library Management
- PCB Layout Design
- Compliance test and Certification
- Thermal Analysis
- Signal Integrity
- RF Antenna

SemiConductors
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Consumer Electronics
Storage
Automotive
IOT
Industrial
Medical

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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 toolchain, Lauterbach

### 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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### 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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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.

**Test Services**

- **Hardware debugging tools**
  - CRO, Logic Analysers, Logic probes.
  - SAS/SATA
  - SerialTek Jammer/Analysers, Lecroy
  - Wireless Protocol
  - Ellisys USB, BT, Wifi Protocol analysers

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

- **WIFI test solutions from Tektronix**

- **IXIA Traffic generators**

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**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