Introduction to ISD

Constantin Papadas

Overview

- Societe Anonyme (S.A.) established in 19/3/1998

- Independent Organization

- Place of Business: 32, Kifisias Ave, Atrina Center, Building B, 15125 Maroussi, Greece, Heraklion, Crete, Greece and Grenoble, France.

- Low Overhead, Flexible TQM Structure

- ISO Certified

- R & D Organization

- Active collaboration with system development companies, software houses and IC manufacturers

- Dedicated to create innovative and practical solutions using state of the art computer HW and SW components and tools.

- Offers a complete design service from initial concept through rapid prototyping to production

- Supports customer products through their life cycle and is in liaison with the customers in-house teams

Expertise and Capabilities

- **System Level**
  - Real time critical systems
  - System-C based modeling for Architecture Definition, Dimensioning, SW/HW partitioning and Validation/Verification
  - System Integration and Validation

- **Integrated Circuits**
  - Digital Architecture, Digital Design (ASIC and FPGA flow)
  - Analog-Digital Mixed-Mode, Analog and RF Design
  - Validation/Verification, Design for Testability and Testing

- **SW and embedded SW**
  - Device Drivers and RTOS developments
  - DSP, Digital Filtering, Audio/Video Algorithms
  - Code Optimization, OS-free scheduling
  - Validation/Verification

- **Prototyping and Verification**
  - Porting of designs and test-benches to Aptix/Emulators/HW accelerators and FPGAs
  - Complete system

- **Design, Simulation and Validation of PCBs**
  - Evaluation Kits, Validation Boards and Products

- **Fully Equipped Lab and a Small Assembly Line for populating PCBs, Plastic Electronics and Integrating Systems**
  - DC/AC electrical measurements
  - Population equipment for FR4, Roger and Flex (up to fine line BGA; prototyping, repair and small production)

Products

- ICs/IPs+SW for consumer electronics

- ICs/IPs+SW for handheld devices

- ICs/IPs for wireless modems (UWB, DVB-RCT, 802.11n MIMO, etc)

- Systems with printable organic electronics

- Augmented Reality and Security

- Sensors and Data Fusion

- SHM for avionics applications

- Mixed-signal and digital hardened ICs for space applications in 150nm and 65nm hardened European CMOS processes.
  - Ser/Des
  - Next generation DSP
  - High Performance Data Processor
  - 24bit ADC/DAC
  - SpF
  - etc