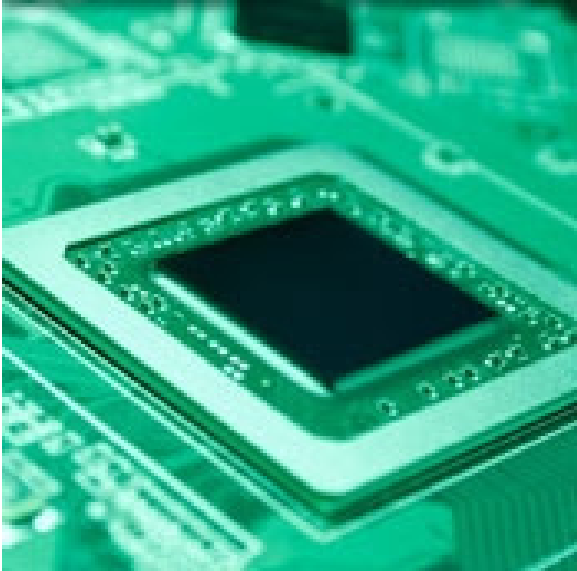


# EPIC TECHNOLOGIES



Consulting  
Services  
Products  
Trainings

Conquering Technological Frontiers



## Technology at work for you

### CONNECTING YOUR BUSINESS TO THE TECHNOLOGY RESOURCES YOU NEED

Epic Technologies is one of the premier engineering firms based in Islamabad Pakistan. It is led by a group of highly skilled entrepreneurs and engineers who have substantial experience working in some of the leading technology firms of Pakistan. We specialize in providing comprehensive and cost effective solutions for our clients, by utilizing the latest state of the art technologies and platforms available.

## Flexible solutions for your requirements

### WE PROVIDE TOTAL END TO END SOLUTIONS

#### FIELDS OF EXPERTISE

EPIC Technologies talented and experienced team has worked on a diverse range of software and hardware projects.

On the software side the team has experience in developing various products which include standalone Windows/Linux based applications, device drivers in Linux, WDM and WinCE environment as well as embedded firmware applications. We have major expertise in Linux software development for both Desktop and embedded systems. Moreover we have also in depth experience in scripting languages like Python, C-Shell etc. Our team has experience of successfully executing several C/C++ and Python based projects. Our team members have developed IDE and Debugger for TMS20C3X DSP of Texas Instruments in the past as well as standalone firmware applications for Microcontrollers like PIC, MSP etc.

Our hardware group has been involved in the design and development of Image Processing and Vision algorithms in MATLAB, C/C++ and Verilog HDL for FPGAs, development of fixed point applications on high speed DSP processors as well as PCB designing. We have vast experience in design and development of embedded systems with multi-layered PCBs, Micro-controllers/Micro-processors/DSPs; wireless interfaces and high speed memories. We also provide complete PCB Manufacturing and Assembly services. We have several suppliers in who provide Commercial, Industrial and Military Grade PCB Manufacturing following the industry recognized standards like IPC-A-600 class II, III, IPC6012 etc. Our Assembly services include PQFP, BGA (package), Finest IC pitch-0.4mm, Max BGA Tin Ball-544 Balls, Max. QFP pin-208pin with Chip Mounting at Maximum Speed of 0.075 seconds per chip. We also have extensive experience in hardware design and development using Verilog HDL/System Verilog, performing synthesis, modeling and functional/gate level verification for FPGA/ASIC based systems. The group has also worked on Encryption (AES), compression (LZW) standards, error correction codes (RS, BCH), Storage Technologies (SD, MMC, CEATA, SATA), USB 2.0, PCI, flash memory models and memory controllers for both FPGAs and ASIC.

#### SERVICES WE OFFER

- Design and Development of Embedded Systems.
- Multi Layered PCB Designing.
- PCB Manufacturing and Assembly
- IP development in Verilog HDL for FPGAs and ASICs
- Firmware and Real time applications for microprocessors and DSPs
- Software Applications for Desktop, embedded systems, telecom, multimedia.
- Driver Development in Linux and Windows environment
- Mobile Applications
- Web Applications (PHP, .Net, Web2.0)
- Training in select areas of design and development.

## SOFTWARE SOLUTIONS

We provide complete software solutions ranging from complex GUI based applications, networking applications to the very low level device drivers for both Windows and Linux Platforms. Our priority is always on the Quality and Performance of the applications.

## HARDWARE SOLUTIONS

Our hardware solutions comprise of multi-layered PCBs with FPGA/MICRO-CONTROLLER/DSPs. We also provide comprehensive firmware and hardware (RTL) solutions for these systems. Moreover, we offer complete IP design, development, modeling and verification for FPGAs/ASICs

## CORPORATE TRAININGS

We offer trainings in selected areas of software and hardware. The software trainings include device driver development for Windows and Linux, Basic Linux courses etc. The hardware trainings include Embedded System design using FPGAs, system design and rapid prototyping of embedded systems



## EXECUTIVE MANAGEMENT

### **Muhammad Mutahir Latif, President. & CEO**

Mutahir has over 6 years experience in the field of software and embedded systems design & development. He has worked on a diverse range of software and hardware projects, ranging from standalone Windows based applications, device drivers in linux, WDM and WinCE environment, embedded systems software and firmware as well as ASIC design and verification. He is a Fulbright scholar with a Masters Degree in Computer Science from North Carolina State University and a Bachelors Degree from FAST-NU Islamabad.

### **Muhammad Haris Anis, Chief Technology Officer**

Haris has been involved in the design, development and verification of various ASIC and embedded systems products for over 6 years. He has worked on USB 2.0, PCI, Encryption standards, compression standards, error correction codes and memory controllers IP for both FPGAs and ASIC. He has also been involved in circuit designing and upbringing of complex embedded systems. He has a Masters Degree in Computer Engineering from Center for Advanced Studies in Engineering (CASE) and Bachelors from NUST Rawalpindi

### **Moazzam Hussain, Director Engineering**

Moazzam has worked on a multitude of projects in the Embedded Systems domain. He has experience in design and implementation of Image Processing and Vision algorithms in MATLAB and C/C++, development of fixed point applications on high speed DSP processors, PCB designing and writing Verilog HDL as well as performing synthesis, modeling and functional/gate level verification for FPGA based systems. He has a Masters Degree in Computer Engineering from Center for Advanced Studies in Engineering (CASE) and Bachelors in Electrical Engineering from UET Taxilla.

### **Rehan Hafiz, Ph.D, Chief Consultant**

Rehan has over 3 years of experience in digital system design for Image processing; Computer Vision and FPGA based reconfigurable instrumentation for optical tomography system. Currently, he is leading a team of system engineers to design a low power USB 3.0 micro-architecture. He is also instructing at postgraduate level at School of Electrical Engineering & Computer Sciences (SEECs) at NUST. He has a Masters Degree in Computer Engineering from College of E&ME & a PhD from the University of Manchester.



## OUR SOLUTIONS

- DICMS, Digital Image Calibration for Multi Projector Systems, a funded project for defense organization. This is an emerging technology used for constructing high-resolution immersive visualization environments.
- Atom360, a complete mobile sales and Inventory tracking solution, which has been developed to revolutionize sales industry in Pakistan. It provides automation and real time connectivity for all kinds of Point of Sales operations.
- ET-V001, an FPGA based embedded system especially targeted for image processing applications (as shown on right). The board comes with full reference documents, sample test applications for Image acquisition, Memory Interfaces, High speed serial Interfaces and basic imaging kernels all written in Verilog HDL
- Training on PCI Driver Development in Windows Environment to Defense and Private sector organizations.



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