

Tekbrains

PRIVATE LIMITED
ADVANCING TECHNOLOGY & RESEARCH



**A COMPLETE
ELECTRONICS
SYSTEM DESIGN &
MANUFACTURING
COMPANY**

**Advanced
Electronics Lab**



ABOUT COMPANY

We are Electronics System Design and manufacturing company targeted at worldwide audience. Also, we provide semiconductor solutions for analog and digital system based applications.

COMPANY REGISTRATION

The company was registered in 2007 as Private limited company under company registration act of Govt. of India. The company is registered under Small Scale Industries (SSI), Government of Bihar and also certified as An ISO 9001 : 2008 company under Quality Management System (QMS) Standard. The company is also registered under ministry of MSME, Government of India.

The company started its operation in Patna as its R&D offices respectively in March 2010.

MISSION & VISION

It has been established with an aim to develop center of advanced electronics research & development and manufacturing of its devices and systems.

At TEKBRAINS, we take pride in design innovation and accept engineering challenges for developing quality products. Providing best possible services is our first goal.

DESIGN SERVICES

1. VLSI (FPGA), , ASIC/System on Chip(SOC) Based Design and development
2. Embedded Firmware development
3. Arduino, 8051/AVR/PIC/ARM 7,ARM9,ARM 11 based design
4. Application software development C/C++, Java, dot net, Ph.P,C#, sql, Database management Windows –OS and Linux-OS based software development
5. Product Prototyping and Re-engineering
6. Electronics and Electrical Engineering Lab tools and Kits Development
7. Power Electronics product design and development
8. Board Development

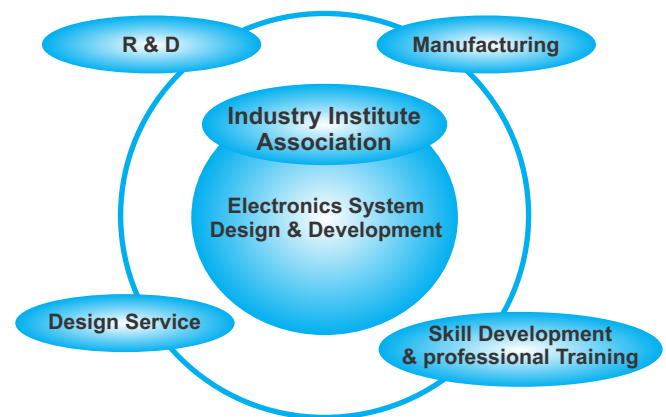
SERVICES INCLUDE

Complete Proto-board design: This covers design and development of complete board prototype design as per customer's specifications. Following steps are followed

1. Feasibility analysis
2. Specification Finalization
3. PCB Schematic and Layout
4. Board Assembly, Verification and Testing
5. Board Proto type development

Once Proto type board is developed, the customer need to test and check its performance and working as per their given requirements. After customer's approval, the prototype board goes for mass production.

TARGET AREAS



TARGET TECHNOLOGY

We provide system solution to the client as well as do R&D for our own in-house project at "Advanced Electronics Lab". Following are the main target technology



PRODUCT RELEASES

- FPGA Universal Board: Released in June 2010
- TCAM SV 1.1: PC(WEBCAM) Based Surveillance System, released in June 2011
- GB SMS Gateway: Released in July 2012
- 8051 Micro controller Board: Released in Dec 2012
- AVR Micro controller Board: Released in DEC 2013
- TVision HV1.4 : DVR based Surveillance System, released in June 2014
- Servo Stabiliser: Released in Dec 2014
- Video Switcher: Released in Dec 2014
- Programmed Electronic Bell: Released in July 2015
- Regulated Power Supply : Released in December 2015
- Motor Controller: Released in December 2016
- Battery Eliminator: Released in January 2017
- Variable Power Supply Ver 1: Released in March 2017
- Universal Battery Charger : Released in December 2017
- Variable Power Supply Ver 2: Released in March 2018
- User Programmable Electronic Bell Released in 6th December 2018
- Musical Electronic Bell: Released in January 2019.

VLSI (FPGA) Universal Kit



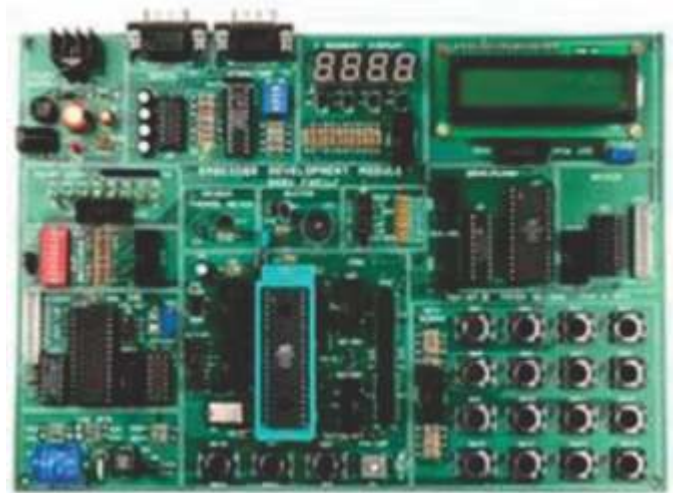
A universal VLSI platform capable of integrating Xilinx FPGA's and CPLD's in PQ packages. It supports devices from XC9500 CPLDs, Spartan-2E FPGA from Xilinx. This proto-board gives a complete learning experience in various PLD architectures and their features.

ELECTRONIC BELL



“Electronic Bell Ver. 1” produces automatic sound as per given time input. The time input is user programmable and easy to use. This can be used in Schools, Colleges, Factories and Religious Places, etc.
“Electronic Bell Ver. 2” can produce different automatic musical sound at different given time inputs. User can change musical sounds as and when it is required.

8051 MICRO CONTROLLER BOARD



Basic Board

The TKB 8051 basic board (TKB MIC 51B) incorporates an AT89s52 Atmel Microcontroller with 8kb Internal Flash Memory, which can be programmed and re-programmed easily thru serial port. Eight tests LED's are connected (or prewired) with number of push buttons and dip switch allowing code to be developed and tested immediately. It has onboard seven segments, Keyboard and 16x2 LCD interface.

Professional Board (TKB MIC51-P):

Basic board including add-on boards namely ADC/DAC Interface, AC Motor and DC Motor interface and relay interface make it complete professional board (TKB MIC51P) which can be used for system prototyping and testing. It has onboard Graphical 16x2 LCD, VGA interface port and USB interface port which make it unique, easy to use, simple, handy and professional kit.

BATTERY ELIMINATOR



SERVO STABILIZER



VARIABLE POWER SUPPLY



UNIVERSAL BATTERY CHARGER



REGULATED POWER SUPPLY



GB SMS GATEWAY



Electronics System Design and Manufacturing Courses under Skill India Initiative of Govt. of India



R&D House: **Advanced Electronics Lab**, Malti Niwas, Road no-1, Dhelwan (Kankarbagh)
Near Mithapur Bypass road, Patna, India. Pin - 800020, Patna Mobile-: 91-800235 9537 Landline : 0612-3219140
Email: tkb@tekbrains.in Website : www.tekbrains.in