

## PROFILE



- 1. Name** : P.JAYACHANDAR B.E., M.E.,  
**2. Date of Birth** : 18-04-1958  
**3. Designation** : Asst. Prof. ECE and DEAN  
Address :Dept. of ECE  
Velalar College of Engineering & Technology  
Erode – 638 012. TN INDIA  
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### 4. Educational qualifications:

- i. B.E in Electronics and communication Engineering  
Govt. College of Technology, Coimbatore  
1980, FIRST CLASS, MADRAS UNIVERSITY
- ii. M.E in Electronics,  
1983, FIRST CLASS, MADRAS INSTITUTE OF TECHNOLOGY  
ANNA UNIVERSITY, CHENNAI

### 5. Professional Experience:

- a. Worked as Senior Design Engineer- Hardware for  
M/s Pragati Computers, Pondicherry, India  
NOV.1983 – MAY 1988
- b. Worked as Asst. Manager (R&D) for  
M/s. Indchem Electronics Ltd., (SANMAR Group)Chennai , India  
JUNE 1988 – JUNE 1990
- c. Own business in industrial automation and Manufacturing
  - i.ABC COMPUTERS, Erode  
JULY 1990 – APRIL 2009
  - ii. Manufacutring Leather Area Measuring and Auto spraying machines  
1992- 1996
- d. Worked as Visiting faculty to teach Advanced Microprocessors for  
SSM College of Engineering 4 Months in 2003
- e. Worked as a visiting Professor for Kongu Engineering College, Perundurai  
JAN 2004 – DEC.2007
- f. Worked as visiting professor for Sri Shakthi Institute of Engineering and Technology,  
Coimbatore. Jan2009 – Apr. 2009
- g. Working as Asst. Prof. in Velalar College of Engineering and Technology  
APRIL2009 –Till Date.
- h. Worked as Consultant for M/s. Akash Technologies, Bangalore, in procuring  
accelerometers for their projects.

## **6. Technical Experience:**

### **A . PRAGATI COMPUTERS:**

Involved in testing S-100 bus based Z80A CPU cards in production  
Testing of other S-100 based support cards  
Testing of VME based MC68020 CPU and other memory, I/O cards  
Development of Dump terminals , semi graphic and color Graphic terminals.  
Responsibilities for the above involve Hardware design, PCB assembly, testing  
Of assembled PCBS, Supervising FIRMWARE development  
Managing the assembly of IBM PC compatible computers  
Ethernet ARCnet LAN card testing, Installation of NOVELL NETWARE at  
Customer site.

### **B. INDCHEM ELECTRONICS LTD.,**

Involved in Design and testing of VT100, VT220 terminals, color graphic  
terminals based on GDC7220 graphic controller .  
Design and development of IBM PC compatible motherboard using  
WESTERN DIGITAL chipset.  
Involved in implementation of converting old teleprinter based news agency's  
(UNI) messaging system into PC based electronic telex system using HASLER  
controller  
Designed 8PORT teleprinter concentrator which connects 8 electronic teleprinter  
units and interfaces them to RS232 port of a PC

#### **Equipments and Tools Handled**

1. Multimeters, soldering irons, SMD assembly tools
2. Oscilloscopes, Logic analyzer, EPROM programmers, erasers
3. Emulators, simulators for Software debugging
4. ORCAD , Kicad software for circuitry entry
5. PAL programmers ,DATA I/O, microcontroller programmers
6. Proteus Circuit Simulator
7. Codeblocks C compilers

### **C. OTHERS:**

Circuit Design Experience using Z80A CPU, 8086, 8051, ATMEGA16L,  
MSP430, PIC microcontrollers, ARM STM32F108A.  
Software development using various ICEs for the above processors using  
C and respective assembly languages.

### **Projects Handled:**

Serviced and commissioned FOXBORO, USA make unit controller for boiler controller  
applications.at SPB Ltd., Erode.

Designed and Installed memory boards of FOXBORO unit controller at VIZAG Steel Plant.

Designed a memory board for the above using latest memory devices replacing two PCBs into a  
small footprint. It saved space in the system, power and at a reduced cost

Helped in running Sugar centrifugal machines by repairing their electronic boards in more than  
25 sugar industries in TN, AP, Karnataka, Orissa and Kerala.

Testing and servicing of various electronic PCBs used in industrial automation products for

SUGAR, PAPER and TEXTILE industries

Commissioning of ASEA make AC/DC drives imported from NORWAY for up to 300HP motors in a paper Mill at Udumalpet.

Testing and servicing of DORON make driver-training simulators(Each machine costs 1 crore rupees) at IRTTT, Chennai, Western India Automobile Association, Pune. and at Kolkata Tramways company.

Having serviced NORITSU make photo printing machines used in photo studios.

Service consultant for Mayor and Sie ,German make circular knitting machines for CITY Mills Erode. 20 machines were maintained.

Conducted training programs on Embedded systems, PCB testing, computer Hardware etc for students, industrial professionals.

Working as a visiting professor for Engineering Colleges to teach Microcontrollers, Testing of VLSI circuits etc.,

Designed and developed area measuring and pigment spraying machines for leather industries

Designed and developed MSP430 based wireless transceiver PCB for short range data transfer applications

Involved in Hardware design of Home automation project based on ATMEL8051

Experienced in teaching Advanced microprocessors and Testing of VLSI circuits for PG students

Developed LAB training kits like 8051 trainer and add-on card display board, I/O board etc., for in house use.

Automated pumping stations (4 Stations at a span of 20KMs) for a poultry farm

Automated an effluent treatment plant of a Textile firm in SIPCOT , Perundurai, using OMRON PLCs with 32 I/Ps and 8 O/Ps.

Machine running hour totalizer for a polybag weaving machine using PIC microcontroller

Italian make Egg sorting machine PLC problem attended at M/S.SKM Egg Products Export India Ltd.

Thailand makes Storch separator machine CPU problem rectified at SPAC Tapiaco Ltd.,

PLC Training program for engineers of AAC block manufacturer M/s Renacon India Ltd.

### **Countries Visited:**

1. Visited Singapore in 2003 for Wireless Data Transfer project for PCB design and assembly, AIRBEE Wireless Inc.
2. Visited Singapore in 1987 for Novell Netware Training and Product identification
3. Visited USA in 1990 for Demonstration of SINGLE board PC motherboard at M/S.WESTERN DIGITAL CORPORATION, IRVINE, CA

### **Book Authored:**

Advanced Microprocessors and Microcontrollers

P.Jayachandar, Dr.P. Brindha, Dr.M. Parimaladevi

ISBN: 978-93-5274-384-1

**No. of B.E/B.Tech., Projects Guided: 10**

### **Funded Projects:**

**Paper machine data analysis using SPSS for**

**M/s. SPB Ltd.,**

**Value: INR20000/-**

**Training Programs Conducted:**

1. Trained engineers of BSNL, SPB Ltd., PSG Tech, Kongu Engineering college on PC HARDWARE Design (1990 – 1998)
2. Training on Embedded system design at various colleges (1996-1999)

**Awards Received:**

- Best Teacher award at Kongu Engineering College
- Best Supplier award at Vizag Steel Plant, Visakhapatnam, AP State