

TAPAN SHRIMALI, B.E.(EC)

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Objective

To pursue a challenging career in Embedded Systems to enhance my skills & career growth

(Embedded Relevant=5 years) Overall Work Exp : 10.5 yrs

- System architecture and design for Embedded Electronic Products;
- System integration: (Concept, Design, Implementation, Validation, Verification, Compliance
- Good at RTOS (VX-Works) & non-RTOS based system design, Device drivers

Hardware worked	LPC1768 (ARM-9), LPC-2148 (ARM-7); Nucleo- F401RE, 8051 ; PIC ; AVR; ESP32 (using esp-IDF ; Raspberry Pi B+, ESP8266 ; ATmega Series, Sensors & Actuators; VFD and PID controllers
Middleware	Firmware Development & Application programming in C & C++
Software/IDEs	CCES-2.9.2, QT, Keil; IAR ; Cube MX ; Atmel Studio ; mBed
Serial Comm	Expert in (UART , I2C, SPI), Knowledge of USB /TCP/IP
Knowledge of	Linux Device Drivers, OS internals; Multithreading ; VX-Works
Cloud IoT applications	Devices/system interaction and troubleshooting
Gateway to Server	HTTP, HTTPS, MQTT, CoAP, 6LoWPAN, TCP/IP, UDP
Technologies	Expert in building IoT Application with IBM Cloud (Python)

Organizations

Working as Embedded IoT Developer at TesnaTech Pvt Ltd. Mumbai from 24 th Aug. 2019.
1.5 years worked as 2 nd Nov-2017 to 31st March Sr. IoT Engineer at SmartBridge Hyd.
8 months worked as Sr. Training Engineer (Embedded & IoT @ Axelta Hyd
7 months undergone Training in “ Embedded. Systems & IoT ” @ ISM, Hyderabad
(2.5 yrs) @ VIN Semiconductors Pvt Ltd, MUMBAI:- Industrial Lighting Energy Saving.
(1.2 yrs) @ Digital Marketing Systems Pvt. Ltd. Indore, M.P. :- Sr. Application Engineer for ‘ABB’ Automations & Process Control,
(1.5 yrs) @ Nvis Technologies (Scientech, Indore (MP) as Training Coordinator in Engg. Colleges for Embedded Systems, DSP based Educational kits & Instruments.
(1.8 yrs) @ Pragmatic Embd. Solutions, Bangalore :- (20 th May 2009 to 31 Jan.2011) as Embedded Systems Engineer for 8051, PIC, AVR , ARM-7 for Educational projects

ACADEMIC CREDENTIALS

Exam	Sub/ Discipline	Year	University/ Instt	Percent
PG Diploma	Embedded/IoT	2017	ISM Hyderabad	93%
B.E.	E.C.	2008	R.G.P.V. Bhopal	64.3%

Real time Projects

Cloud integrated Turbidity measurement using ADICUP360

Participation as: Complete product Developer in TesnaTech P. Ltd., Mumbai

Description: The solution given measures the Turbidity of the solution using a microcontroller-based measurement unit with WiFi connectivity to the IBM Cloud. The user can easily see the readings either via Smart phone App or through a Web Application.

Asset Tracking Project for CYIENT Ltd Hyderabad

Participation as: Team Member

Role: Only familiar with Conceptual outline of the project with the algorithm

Description: With the beacon capability of ESP32 to scan the presence of other beacons

Real time data monitoring in Trucks and containers using GSM/GPRS (2G/3G) at

(It is 3 years old but good project of May-2017 when I was in Axelta Hyderabad)

Client: Best Cold Chain

Role: Appn programmer in the ATmega328P microcontroller on Arduino UNO devpt board

Description: We have given a solid solution to prevent false claim done by Best Cold Chain clients by giving real time monitoring of Temp, Humidity, Battery Power, Light intensity and Magnetic Reed switch status.

Smart Attendance Systems with integration to IBM Cloud Client SS Associates Chennai

Participation as : Individual contributor

Role: Application Program for the Attendance Module.

Description : Authorization access with RFID Cards using MFRC522 with local storade in SD Card and pushing the same information to IBM Cloud

Battery Management System for Penna Cement Ltd

Role: Firmware Development

Description: Module shows Battery Status, Charging time ; Discharging time on Computer Alarm on 10% at the sight

Home Automation Using IBM Cognitive Services

Description: Monitoring parameters like illumination and temperature and controlling appliances in home using IBM Watson Assistant and Node-red Application.

2.5 yrs as Sr. Executive (BD) for VIN SemiConductors Pvt. Ltd, MUMBAI

Energy Audit & replacement of Conventional Lights by L.E.D. Lights (Domestic, Commercial & Industrial Lights including Solar range.

1.2 yrs Exposure for “ABB Automation” @ Digital Marketing Systems Pvt. Ltd , Indore

AC VFD : Scalar , Vector and DTC (Direct Torque Control)
DC Drive : Digital DC Drives
Temp. : Sensors & Transmitters
Flow : Magnetic, Vortex, Coriolis, DP , Wedge
Level : Ultrasonic, Differential Pressure
Control Room : Indicators, Relay based Controllers, & PIDs

1.5 yrs. Experience at Sciencetech (Nvis) Technologies, Indore (MP)

- 1) Installation & Working of DSP Trainer kits .8051, PIC, AVR & ARM7 kits.
- 2) Trainers of CRO, F.G. , VNA,Microwave & MIC ; Optical Fibre & Antenna & EM Waves

Pragmatic Embedded Solutions, Bangalore

1.8 years' experience as Embedded Engineer in

- 1) MicroControllers 8051, ARM-7 (LPC-2148), PIC, AVR in hardware/ devices
 - 2) Systems Designing & Digital Signal Processing using MATLAB / Simulink
- RF comm (Zigbee) ; IR based ; Home Automation & Security ; Sensors & Keypad/ LCD interfacing ; Serial Comm. Protocols : UART ,I2C , SPI (Educational projects)

Additional training Certificates during B.E.

- **Universal Informatics, Indore (MP) :** Core Java, Advanced Java
- **HCIL, Gurgaon (Hughes Communications India Ltd) :**
Advanced Networking & Routing Configuration of CISCO Routers
- **Digitech Solutions :**Designing of Electronic CKT through Verilog (Synthesis)
- **Sciencetech Technologies , Indore:** Industrial Training for Electronics & Comm.
- **B.S.N.L.. Khargone (M.P.):** Training of Working System of Telephone Exchange
- **Excel Computers Khargone :**Hardware & Networking
- **Society for Electronics & Computer Technology, Bhopal :** Programming in BASIC;
Word Processing ; Disc Operating System

Tapan Shrimali, Mumbai
