# Embedded Technosolutions

**Venture of IIT Bombay & VJTI Alumni**

Embedded Systems | Software | Mechanical | Automation

## Trainings & Jobs

**100%** Placement Assistance

**Contact :** 8828222688 / 9224301650

www.embeddedtechnosolutions.com

## Industrial Certified
## SCADA HMI Training

### Government of India (MSME) & IIT Bombay Alumni Recognized



## We Are India's one of the Leading Trainings & Jobs Providing Organization

**ET**

# Embedded Technosolutions

### Venture of IIT Bombay & VJTI Alumni

Embedded Systems | Software | Mechanical | Automation

## Trainings & Jobs

**100%** Placement Assistance

**Contact** : 8828222688 / 9224301650

www.embeddedtechnosolutions.com

---

EUROPACERT

**Embedded Technosolutions**

Shop No. C/20, 1st Floor, Amrita Sadan, Near Hotel Dwarka Nerul Railway Stations, Nerul West, Mumbai- 400706, Maharashtra, India

Has established and applies a Quality Management System for following scope of activities:

**Imparting Engineering Professional Training And Engineering Project Exhibitions Engineering And Engineering Paper Publication**

The Management System of the above organization has been audited and found to be in accordance with the requirements of management System Standards Detailed Below:

## ISO 9001: 2015

Certificate Number: 14464

Issue Date : 21st September 2017

Expiry Date : 20th September 2020

Certification Manager

**UKASCB**
UNITED KINGDOM APPROVAL
SYSTEM FOR CERTIFICATION BODIES LIMITED

Europa Cert Inc.
Accredited By
United Kingdom Approval System For Certification Bodies Limited
27 Old Gloucester Street, London WC1N 3AX United Kingdom

---

भारत सरकार
Govt. of India
सूक्ष्म, लघु और मध्यम उद्यम मंत्रालय
MINISTRY OF MICRO, SMALL & MEDIUM ENTERPRISES

**MSME**
MICRO, SMALL & MEDIUM ENTERPRISES

उद्योग आधार   **Udyog Aadhaar**

| Type of Enterprise | Micro | Small | Medium |
|---|---|---|---|
| Manufacturing | A | B | C |
| Services | D | E | F |
| UAN | MH19E0006383 | | |

E

## Government of India (MSME)

**Name of Enterprise** : Embedded Technosolutions

**Type of Organisation**
Proprietary

**Postal Address**
Shop No.C/20,1st Floor ,Amrita Sadan, Near Hotel Dwarka,Nerul West,District - Mumbai City, State - Maharashtra, 400706

**Email**
info@ embeddedtechnosolutions.com

**Majority Activity**
Services

**District Industry Centre**   **UAN**
Mumbai City                    MH19E0006383

---

## Government of India (MSME) & ISO 9001-2015

## Approved Organisation

## Running by IIT Bombay & VJTI Alumni

# Embedded Technosolutions
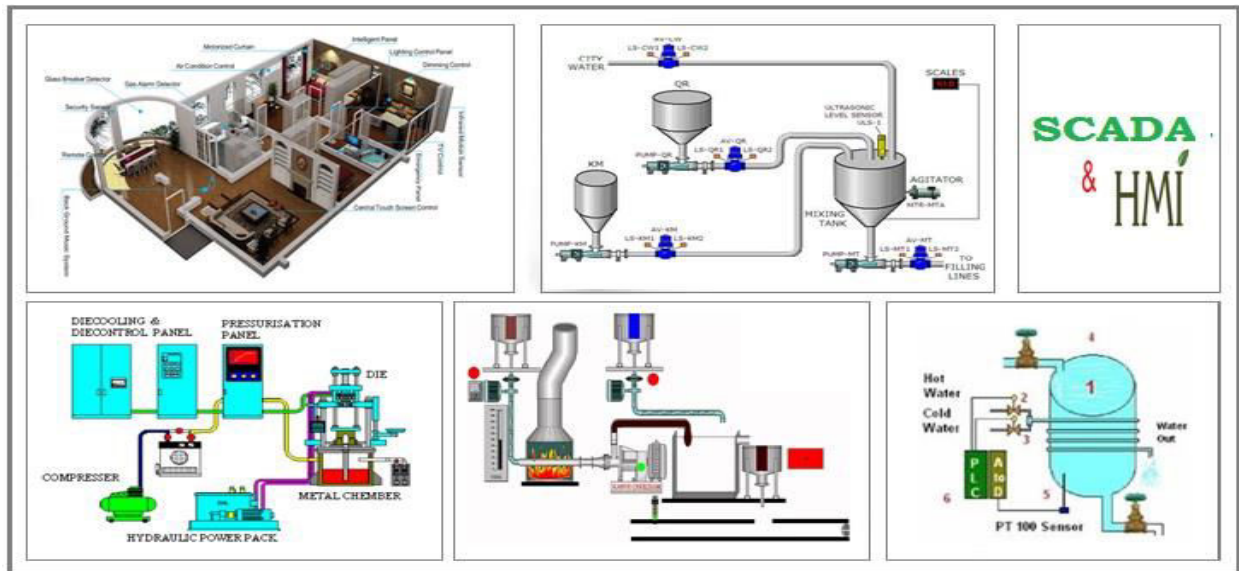
**Venture of IIT Bombay & VJTI Alumni**

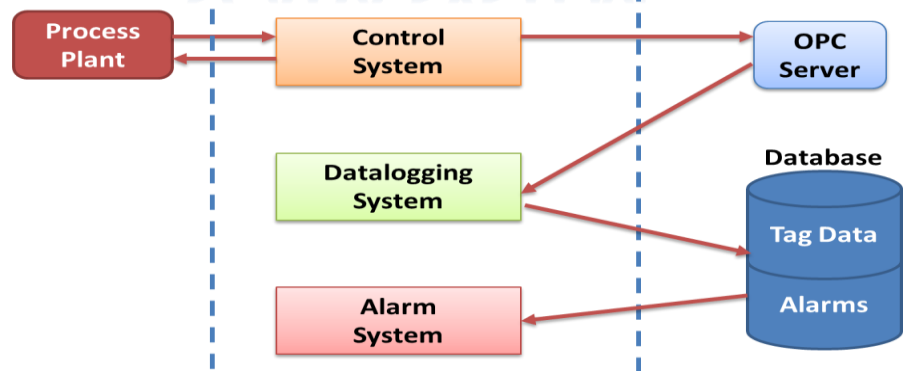Embedded Systems | Software | Mechanical | Automation

Trainings & Jobs

**100%** Placement Assistance

**Contact :** 8828222688 / 9224301650

www.embeddedtechnosolutions.com



## SCADA SYSTEM

# Embedded Technosolutions

**Venture of IIT Bombay & VJTI Alumni**

Embedded Systems | Software | Mechanical | Automation

Trainings & Jobs

**100%** Placement Assistance

Contact : 8828222688 / 9224301650

www.embeddedtechnosolutions.com

---

## Who We Are ?

**Embedded Technosolutions** is a Professional & Corporate Training Institute & a Company which Working for Indian MNCs & Medium/Small Scale Industries in Product R&D, Development, Manufacturing & Customization.

Our training sessions are purely practical based on industrial standards

**3** Times IIT Bombay Robo Competition Winner

**E**mbedded **T**echnosolutions

**Venture of IIT Bombay & VJTI Alumni**

Embedded Systems| Software | Mechanical | Automation

Trainings & Jobs

**100%** Placement Assistance

Contact : 8828222688 / 9224301650

www.embeddedtechnosolutions.com

## Till Now We Worked for the following Industries

- Crompton Greaves Ltd, Mumbai

- Laboratory Corporation of America, LabCorp, Burlington, NC USA

- Netfinity, India

- Continental Grain Corporation

- Brook Furniture Rental, Chicago, IL

- ITA,Banglore

- RAK Ceramics,Mumbai

- Nvidia,Pune

- ARORA,Mumbai

- RED Cell, Mumbai

- Secutech ,Mumbai

## COURSE SYLLABUS

## Theory of SCADA

- ➢ Introduction
- ➢ Industrial Automation Basics
- ➢ Basic Knowledge
- ➢ Data & Communications
- ➢ Types of SCADA & Different SCADA Products.
- ➢ Project overview
- ➢ Project Management
- ➢ Running the Project
- ➢ Graphical Animation
- ➢ Web Buttons
- ➢ Slider Movement
- ➢ Visibility
- ➢ More Animations

# **E**mbedded **T**echnosolutions

**Venture of IIT Bombay & VJTI Alumni**

Embedded **S**ystems | **S**oftware | **M**echanical | **A**utomation

Trainings & Jobs

**100%** Placement Assistance

**Contact** : 8828222688 / 9224301650

www.embeddedtechnosolutions.com

- ➢ Server-side Scripting
- ➢ Client-side Scripting
- ➢ Many side scripting
- ➢ HTML Basics
- ➢ Database

## **Theory of HMI**

- ➢ HMI function
- ➢ Data handling with HMI
- ➢ Terminology
- ➢ History
- ➢ Command Line Interface
- ➢ Interface Design
- ➢ Interface Types
- ➢ Terminology
- ➢ Configuration and interfacing with PLC and PC
- ➢ Communication standards, Ethernet, **RS485,RS232**

# Embedded Technosolutions

**Venture of IIT Bombay & VJTI Alumni**

Embedded Systems| Software | Mechanical | Automation

Trainings & Jobs

**100%** Placement Assistance

**Contact** : 8828222688 / 9224301650

www.embeddedtechnosolutions.com

## Practicals on SCADA

- ➢ Introduction of Monitoring systems SCADA & HMI.

- ➢ Detail study on Industrial SCADA Applications.

- ➢ Practical configuration of SCADA Project.

- ➢ Practical Hands on Tag Development.

- ➢ Practical Interfacing different sensors signal to SCADA systems.

- ➢ Practical Interfacing different sensors to Real Time Trends/Alarms.

- ➢ Practical Interfacing different sensors to Historical Trends / data retrieving.

- ➢ Data Management interfacing from SCADA to Excel

- ➢ Practical Interfacing of SCADA Systems to PLC Hardware to control Plant from remote Locations.

## **Practicals on HMI**

### <u>Basic experiments</u>

- I/O instructions: NO,NC O/P coil, Inverter I/P, inverter O/P, logic gates
- Data Transfer: MOV word: moving data to register or on data visible on the screen MOV toward Table initialize Table block transfer Data exchange between to register or two displayed data.Arithmetic : Addition, subtraction, multiplication, division, increment,decrement,square root : using above instruction implementation of basic level mathsfunction,calculator,pulse generator
- Comparison: greater than/less than, equal to, not equal to : decision making algorithms. store the specific data decision basis

### <u>Advanced experiments</u>

- Timer : on/Off timer
- Counter: single pulse counter , Up/down counter, counter using rising edge and falling edge to avoid noise
- subroutine: call and ret instructions
- Program control: examples for jump, for loop, master set/reset, sequential initialization, sequential input/output.
- interrupt enable/disable

## Touch screen specific experiments

- Drawing tools: to draw shapes and animate it as per need, insert image, insert background images
- quick buttons : go to screen, next screen, previous screen, open popup screen, reset, write value, add value, toggle bit
- show data: numerical, bit and message data, edit data
- Advanced options: buttons, bit buttons, word buttons, lamp, bar graph, pie graph, meter graph, multiple bar graph, trend, alarms.
- clock object: time , date

# Embedded Technosolutions

**Venture of IIT Bombay & VJTI Alumni**

Embedded Systems | Software | Mechanical | Automation

Trainings & Jobs

**100%** Placement Assistance

**Contact :** 8828222688 / 9224301650

www.embeddedtechnosolutions.com

## Placement Policy

- As we are working for industries for their product development,R&D ,Customization & Manufacturing we get direct recruitment related notification from that companies whenever there is the recruitment in the that companies.

- Also other companies in the market they also call us regarding recruitment process.

These entire JOB related notifications we exclusively provide to our students and they can apply in that companies directly.We upload the password protected job notifications on our website,students can access that job notifications from our website with password.