



# Embedded Technosolutions

Venture of IIT Bombay & VJTI Alumni

Embedded Systems | Software | Mechanical | Automation

Trainings & Jobs

**100%** Placement Assistance

Contact : 8828222688 / 9224301650

[www.embeddedtechnosolutions.com](http://www.embeddedtechnosolutions.com)



## Quadcopter Design

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



**Skill India Mission**

कौशल भारत - कुशल भारत

***Government of India Registered & ISO***

***Certified Organization***



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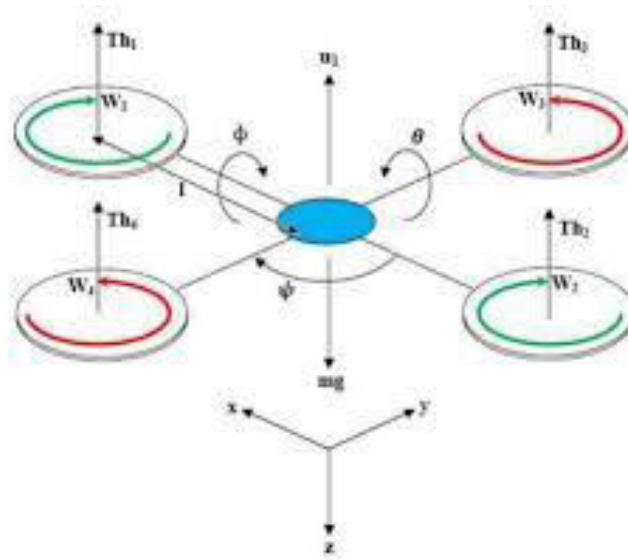
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**Embedded Technosolutions** is a Professional Training Institute & a Company which Working for Indian MNCs & Medium/Small Scale Industries in Product R&D, Development, Manufacturing & Customization.

Our training sessions are purely practical, based on industrial standard.

## Course Objectives

1. To provide professional and industrial standard training which will help the students to get job in the core industries
2. To learn practical orientation of actual industrial product design
3. To learn the designing of Real World Projects



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## Course Syllabus

### **Module 1 : Introduction to Quad Copter**

- History
- Present Scenario
- Applications
- Quad copter control flow chart
- Components used in Quad copter

### **Module 2 : Flying Dynamics**

- Thrust produced
- Direction of thrust
- Dependency on axis



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## Module 3 : Frames

- Type of Structure
- Frame material

## Module 4 : Stabilization Control Board

- Information about microcontroller and microprocessor
- Gyroscope Sensor
- Accelerometer Sensor
- Gain Adjustment
- Layout of Board

## Module 5 : Electronic Speed Control ( ESCs)

- Circuit Connection
- Internal Architecture
- Working PWM



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## Module 6 : BLDC Motors

- About motors
- Working Principle
- Applications

## Module 7 : Propellers

- Design Mechanism
- Forces acting/generating
- Dimension
- Applications

## Module 8 : FMS (Software)

- Introduction
- Installation
- Working on Software



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## Contact Us

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### Our Other Ventures

[www.onlineprojectexhibition.com](http://www.onlineprojectexhibition.com)

[www.ijtp.com](http://www.ijtp.com)