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Venture of IIT Bombay & VJTI Alumni

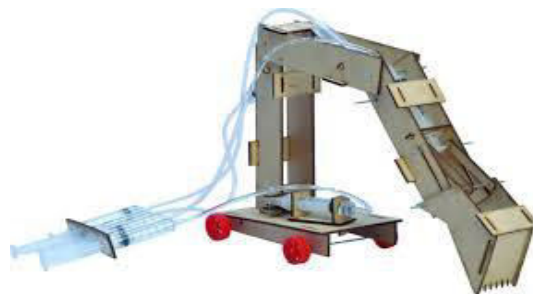
3 Times IIT Bombay Robo Competition Winner

**Industrial Certified
School Junior Robot Scientist**

**All India Council For Technical Skill
Development (AICTSD)**

In Association with

IIITians Embedded Technosolution



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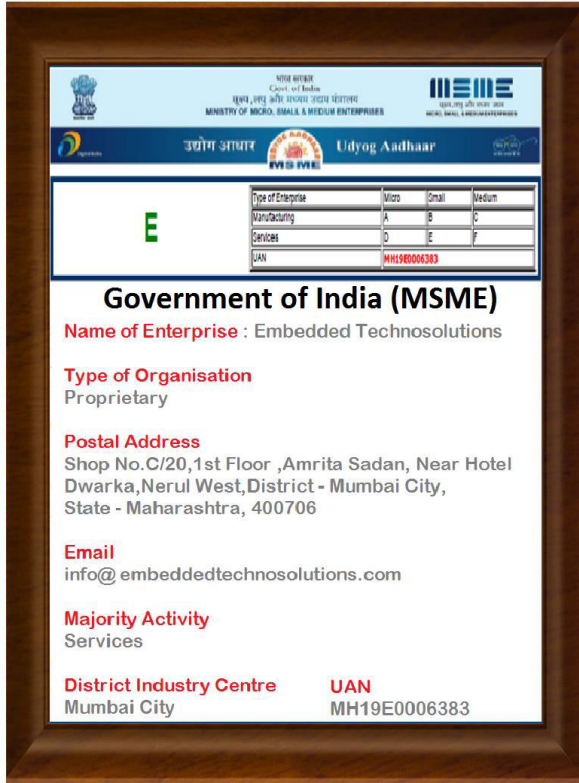
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**Government of India (MSME) & ISO 9001-2015
Approved Organisation
Running by IIT Bombay & VJTI Alumni**

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

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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, Bangalore
- RAK Ceramics, Mumbai
- Nvidia, Pune
- ARORA, Mumbai
- RED Cell, Mumbai
- Secutech, Mumbai

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B R A N D

PROMISE

**We Guarantee You that, You Can Develop Your Projects by
Your Own After This Training Program**



School Junior Robot Scientist

1. Introduction of Automation & Technology
2. Introduction of Artificial Intelligence(AI) & Its Use in Technology
3. Artificial Intelligence Mechanism & Computations
4. Science & Mathematical Principles used in Automation & Artificial Block Building
5. Electrical & Mechanical Concepts Involved in Robot Building Concepts

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6. Introduction to Various Major Components used in Robot Building
7. Schematic & Interconnections of Various Modules
8. Introduction to Power Supply Unit Used in Automation
9. Physics Concepts of Power Supply
10. Power Supply Designing Concepts
11. Integration of Various Mechanical & Electrical Components to form Basic Robot Unit
12. Introduction to Electronics Passive & Active Components
13. Use of Electronic Meters (Multimeter) to Test Various Active & Passive Electronics Components
14. Understanding of Printed Circuit Board(PCB)
15. PCB Unit Testing
16. Soldering & Component Assembling on PCB
17. Electronic Circuit Testing & Fault Finding
18. LED Blinking Concepts

Arduino Platform

19. Introduction to Open Source Platform Arduino
20. Introduction to Arduino IDE

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Arduino C Programming

21. Embedded C Programming for Arduino
22. Arduino Libraries & Basic Module Interfacing
23. Logic Families

Wireless Communication Technology

24. Introduction to Wireless Technology
25. Introduction to Wireless domain Advantages & Applications

Bluetooth Technology

26. Introduction to Bluetooth Communication
27. Bluetooth technology interfacing in real application
28. Bluetooth module programming

Radio Frequency Mobile Technology (DTMF)

29. Introduction of RF Communication
30. RF technology interfacing in real application
31. RF module programming

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	<u>Live Projects</u> :
	School Junior Robot Scientist
1	Basic Artificial & Automation Mechanism Module Designing
2	Mobile Controlled Based Remote Car
3	Bluetooth & Android Based Robot Designing
4	Wireless Home Automation
5	Traffic Light Designing
6	Electronics Rain Alarm
7	Smoke Detector Designing
8	Voice Controlled Robot (Alexa)

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