

# Brochure

NextLayer is a future focused platform delivering top tier skill in Robotics, Design, and Emerging Technologies.

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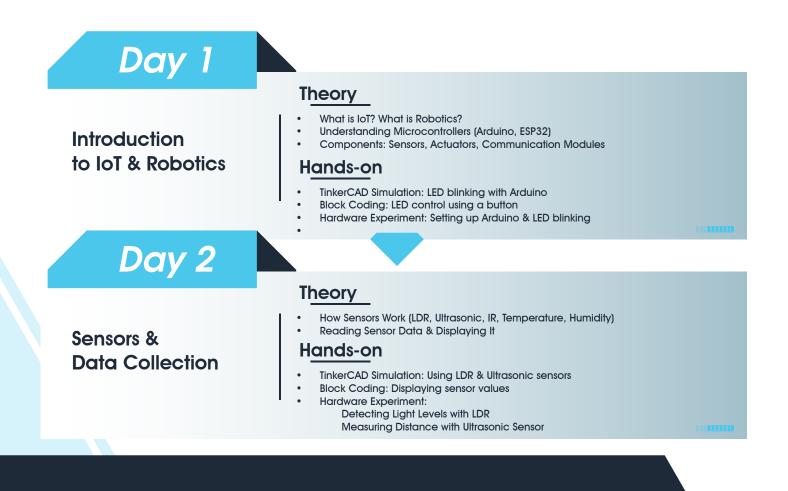
DATE: 21st July 2025 to 26th July 2025

> *TIME:* 10:30 AM to 1:30 PM

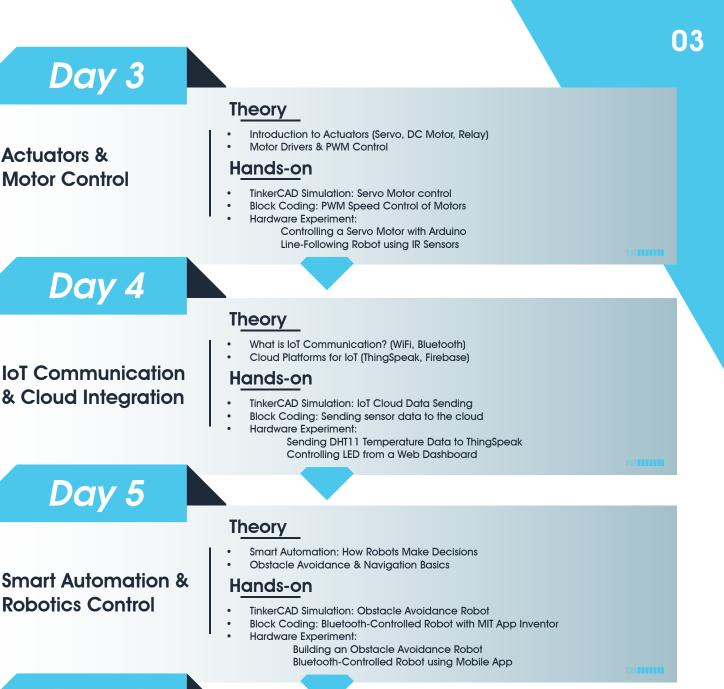
# 6 Day IoT & Robotics Hands-On Bootcamp

Duration: 6 Days Level: Beginner-Friendly Mode: Hands-on Learning

Date: 21st July 2025 to 26th July 2025 Time: 10:30 am to 1:30 pm







### Day 6

Mini Project Development (Guided)

- Theory
- How to Build an IoT or Robotics Project
- Step-by-Step Guide to Mini Projects

#### Hands-on (Students choose one guided project to build)

- Smart Dustbin (Ultrasonic + Servo) Opens automatically when someone comes near
  IoT-Based Fire Alarm (DHT11 + Buzzer + WiFi) Alerts when temperature is high
- Bluetooth-Controlled Car (HC-05 + Motor Driver) Controlled via a mobile app
- TinkerCAD Simulation: Testing circuits before building
- Hardware Experiment: Hands-on assembly and testing



# Day 6

#### Final Project & Showcasing

#### Theory \_\_\_\_\_

- Final Touches on Projects
- How to Present a Technical Project

#### Hands-on

- Independent Project Development: Students create their own projects
- Showcasing: Each student presents their project & working demo
  - Feedback & Certificate Distribution

## Requirements

- Hardware: Arduino, ESP32, Ultrasonic Sensor, DHT11, IR Sensors, LDR, Servo Motor, DC Motor, Motor Driver, LEDs, Breadboard, Jumper Wires.
- Software: TinkerCAD, Arduino IDE.

### Why This Bootcamp is Effective?

- Hands-on with Simulations & Real Hardware
- Block Coding for Easy Learning
- Simple but Practical IoT & Robotics Projects
- Students Build & Present Their Own Project



