

# HOW TO RUN THE PROJECT

To run a project that implements the described motion detection, wireless communication, actuation control, and system monitoring, you need both hardware and software components configured and working in sync. Here's a breakdown of what's required and how to run the project:

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## System Requirements :

### Hardware Requirements :

1. Microcontroller
  2. ADXL345
  3. Wireless Module
  4. Servo Motor
  5. Actuators
  6. Power Supply
  7. Zigbee
  8. Arduino IDE
  9. Power Controller
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### Software Requirements :

- Sensor Libraries
  - Signal Processing
  - Wireless Communication
  - Data Processing
  - Actuation Control
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### Steps to Run the Project :

1. Assemble the Hardware
2. Upload Firmware to Microcontrollers

3. Set up Wireless Communication
  4. Implement Signal processing and Mapping
  5. Train & Load Gesture Model
  6. Control the Actuators
  7. Evaluate & Monitor the System
  8. Final Testing and Optimization
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