

WINTER & STARK AUTOMATION

➤ **Description:**

Winter and Stark Automation, is a company which designs variety of user-friendly Automation Systems for Homes, Industries and Security set-up Systems.

Our goal is to provide eminent Automation Systems to our clients.

Among all Projects, this is a home automation system, which includes Bluetooth Technology as well as Wi-Fi controlled home devices and one exceptionally secure door-locking system. This entire Project has 3 different modules.

This IoT based system accurately comprehends user interactions and delivers contextual responses in Real time and help to operate Electrical components Easily.

- **Ultimately, this project is an integration of three separate modules:**

1.WI-FI + SENSOR SYSTEM

2.SECURITY SYSTEM

3.BLUETOOTH AUTOMATION

▪ **Project Details:**

▪ Features –

Wireless control of Electronic Components up to 220 V

▪ Hardware used –

1. Arduino UNO with built-in WI-FI module
2. Relay Module (5 V)

3. Bluetooth Module
4. Temperature Sensor
5. Flame Sensor
6. PIR motion Sensor
7. Buzzer
8. LED lights
9. LED Strip lights
10. LCD Display
11. Servo motor
12. Password Module
13. DC motor fan
14. Battery back-up
15. Connecting wires
16. Breadboard

- Software used –

- Arduino IDE

- References –

- YouTube
 - Google

- **Team Members:**

- **Drashti Dhola** [Team Leader]

- > Bluetooth Technology Developer
 - > Arduino IDE Code management
 - > Embedded & IoT hardware Analyst
 - > Time Management & Technical support specialist

- **Harshil Ramani** [Product Quality Control & project Manager]

- > Wi-Fi systems developer
 - > Relay Operating and Electrical Components Management
 - > Technical support specialist
 - > System Design & Security Adviser

- **Nupur Kukadiya** [Sensors System Developer]

- > Researcher on Temperature sensor and Flame sensor

--> Bug solving section
--> Individual Component Coding

▪ **Shikhaa Tikiwala** [Sensors System Developer]

--> Researcher on PIR Motion Sensor & Buzzer
--> Bug solving section
--> Individual Component Coding
--> Documentation Expert

▪ **Shubham Khunt**[Co-leader & Security System Developer]

--> JavaScript developer
--> Web Developer
--> Researcher on password-controlled door locking system

▪ **Viraj Talaviya** [Financial Support & Security System Developer]

--> HTML-CSS-JavaScript developer
--> Researched on LCD Display
--> Back-end developer for interface

▪ **Vishwa Khokhariya** [Project Architecture & Designer]

--> Design architect
--> Bug solving section
--> Schedule Management

▪ **Project Duration:**

- 1 month (September '21)

▪ **Project Expense:**

- Rs. 3000/- (approx.)

▪ **Guided By:**

- **Dr. Hitesh Lad (MSc. In Electronics)**
(Embedded & IoT faculty at the Dept. Of ICT, VNSGU)

▪ Contact Details:

1. Harshil Ramani –

www.linkedin.com/in/harshil-ramani-2b528920b

2. Drashti Dhola –

www.linkedin.com/in/drashti-dhola-37512420b

3. Shubham Khunt –

www.linkedin.com/in/shubham-khunt

4. Viraj Talaviya –

www.linkedin.com/in/viraj-talaviya-7929b6212

5. Shikhaa Tikiwala–

www.linkedin.com/in/shikhaa-tikiwala-a054b6217

6. Nupul Kukadiya –

www.linkedin.com/in/nupul-kukadiya-b60a84215

7. Vishwa Khokhariya –

www.linkedin.com/in/vishwa-khokhariya-a1aa82220