

SpyDer

OBJECTIVE

- Our objective is to create a multifunctional surveillance bot.
- It can stick on any surface through vacuum suction
- It is detachable
- It has a video camera mounted on a rotating platform
- It includes video transmission for both short (Bluetooth/Wi-Fi) and long (internet) distance.
- SD storage for additional backup.

ADDITIONAL FEATURES (if time permits)

- Lateral movement and platform rotation of the bot
- Charging socket attached on the surface

COMPONENTS

- Raspberry pi
- Wi-Fi dongle
- Camera(maybe inbuilt storage)
- Motors
- Rechargeable battery(lithium ion battery)
- Vacuum suction pump

WEEKLY PLAN

- **Week 1-2:** To design the part which is able to stick on the surface
- **Week 3:** To use the motor for the conical movement of the camera
- **Week 4-5:** To use Raspberry pi and Wi-Fi dongle to transfer data and have the movement of the camera using laptop
- **Week 6:** To assemble all the components and try for implementing the additional features