

## ANDROID BASED VIDEO SURVEILLANCE ROBOT

### AIM:

Design and Development of Android based video surveillance robot.

### PURPOSE:

Video surveillance robot plays major role in security applications. Sometime these kind of robot helps in military applications. General robots are controlling from RF and video surveillance from another system. We need to carry two sets to control robot and to monitor video. Here Android application gives two features in single screen. Here we propose solution like Android based video surveillance robot.

### DESCRIPTION:

This project includes Bluetooth (HC-05) module, which is connected to Arduino through UART interface. L293D connected to Arduino digital pins and it can control robot motor.

### WORKING:

Here Robot can be controlled form Android Application. Also we can place smart phone on robot and it can transmit video to Android application. This android application is customized application and it has robot controlling keys and video surveillance window. User can control robot in different directions. Robot moment status displayed on 16X2 LCD display.

## TECHNICAL SPECIFICATIONS:

### HARDWARE:

Microcontroller	:	Arduino Uno
Crystal	:	16 MHz
LCD	:	16X2 LCD
Bluetooth	:	HC-05
Motor Driver	:	L293d
Motors	:	DC gear motors 60 r.p.m
Power Source	:	12v 2 amp Adaptor

### SOFTWARE:

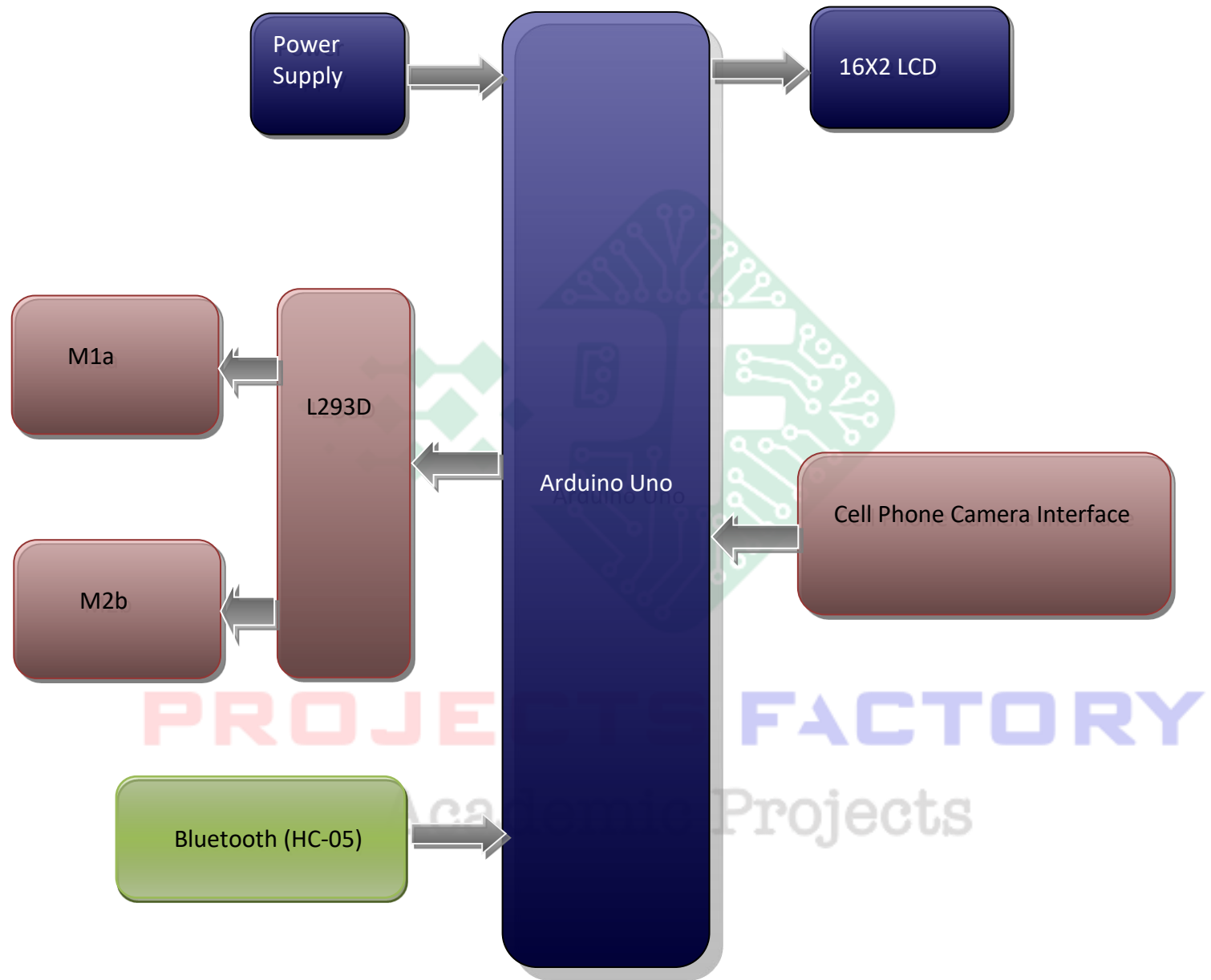
Arduino IDE  
Proteus based circuit diagram

### APPLICATIONS:

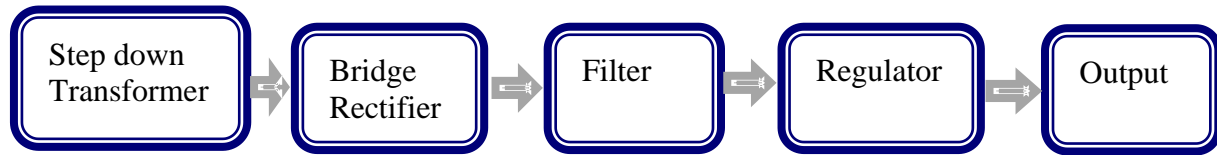
- Military Application
- Industrial Application

**PROJECTS FACTORY**  
Academic Projects

**BLOCK DIAGRAM:**



## POWER SUPPLY BLOCKDIAGRAM:



## INTERFACES COVERED:

- We have covered Bluetooth (HC-05) module interfacing
- L293D Motor driver interface

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