

## Execution Instructions:

### Instructions for setting up FireBird 5:

1. Burn the hex file with -o0 optimization into the bot.
2. Connect the Bluetooth module in respective pins.
3. Configure the jumpers to be in POD direction.
4. Configure the jumpers to turn on the Zigbee module.
5. Restart the bot and follow instructions below.

### Instructions for installing Android\_FB5 application:

1. Attach the phone with PC using the USB cable.
2. Copy the Android\_FB5.apk file found in /Android\_FB5/bin/ and paste in some location on the memory card of the phone.
3. Go to that location and open the Android\_FB5 file.
4. It will ask the option to "install", click on "Install".
5. The application icon appears along with other software.
6. Open the application and feed in the Bluetooth MAC address of the Bluetooth module connected to FB5 in the text box provided. Now click "Connect" to establish connection between phone and FB5.
7. After connection is successfully established, click "Camera On" and gently place the camera on the hooks present on the front carrier.
8. System would automatically begin to function as soon as it receives the signal from Remote monitoring device ( via. Zigbee).

### Configuring and Interfacing Bluetooth module (LM400) with FB5:

Bluetooth module is interfaced with FB5 through expansion slot present in FB5. UART2 of ATMEGA2560 is used for serial communication with module. Rx & Tx pin of LM400 is connected to pin 1 & 2 of expansion slot respectively. Power supply is taken from pin 21 & 23 of expansion slot. Also jumper J1 of FB5 is to be changed so that UART2 of ATMEGA2560 gets connected with expansion port of FB5 (refer FB5 hardware manual).

