Android Controlled SpyBot

Microcontrolled based system design lab – CSE 3216

**Submitted to:**

**Murad hasan ANIK, lecturer (aust)**

**Samin Shahriar Tokey** | 14.02.04.066

**Biozid Niloy** | 14.02.04.070

**Naimul Haque** | 14.02.04.080

**Sharmin Sultana Mohua** | 13.02.04.006

Android Controlled SpyBot

Objectives:

* To navigate places where human can’t reach physically
* To get video live feed from integrated camera
* To control the robot wirelessly from wide range of distance

Features:

* Controller Type: Android App
* Communication technique: Wi-fi
* Size: diameter of 6.5’’(165 mm)
* Remote control: WiFi AP with 2.417 frequency
* Silent and powerful (LiPo powered)
* High torque motors with grippy wheels
* Camera can be rotated via a servo (Optional)

Equipment:

* Processor board: Raspberry pi 3 Model B
* Camera: Pi camera – 5 MegaPixel
* Motors: Micro Gear Motors
* Power: 1500mAh 3C 11.2V LiPo Battery
* Body: Pololu Chassis
* Wheel: Pololu Wheels
* Caster: Steel ball caster

Others:

* Jumper Wires
* L298N Motor Driver IC (Green)
* LEDs
* Mini breadboard
* Custom built platform
* Screws, Glues etc.
* Servo motor (Optional)
* Arduino Mega (Optional)

P.S: The features and equipment may slightly vary from the final product. (As we are still unaware of the full extent of Raspberry pi)