RC Rover Proposal

This project proposal is for two group members merging individual hardware projects to create a super bot. A swivel enabled camera which is to be mounted on top of a two-wheel drive robot allowing for mobility, surveillance, and remote control when paired with a Raspberry Pi. The design and creation of the individual hardware will also be covered. The two devices coupled will create what we will call an RC Rover. The robot will be mobile and controlled by an android software application either from a smartphone or a tablet. The RC Rover will eliminate the need to be physically present to maneuver and observe environments.

The application will have an easy to use user interface. It will provide a live video feed of the RC rovers view directly from the software application. It will also include a controls to individually control camera view and movement of the RC rover. It will also include functionality to record and take snapshots from the RC rover which will be sent and stored to the database. Data files saved to the cloud will be available for viewing and editing directly from the application. The database will store videos and photos taken from the camera portion of the hardware. It may also potentially store information on location.