

PROJECT PROPOSAL

Advanced Home Security System

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| BROAD SUBJECT AREA | Engineering Science | | |
| SPECIALIZATION | Mobile Computing | | |
| TITLE | Advanced Home Security System | | |
| TEAM MEMBERS | In alphabetical order:- | | |
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Project Details

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| ORIGIN OF PROPOSAL | <p>With the advent and advancement of technology, our primitive lives have changed fast. Our lifestyle has become more comfortable, thanks to the various arrays of gadgets and devices for communication, education, etc. But just like there are two sides of the same coin, technology has its shortcomings too. Crimes have existed in the past, and have only aggravated in nature. Now, with technology, criminals have found a new breath of life. So, technology and advanced gadgetry is our only weapon and protection against this misuse and abuse of scientific progress.</p> <p>Our project is aimed at doing just that. Advanced Home Security and Armament System, or AHSAS in short, was planned keeping in mind the various problems people face because of the most common reasons for hiring and/or installing hi-tech security-home invasions. Breaking into homes keep claiming victims all the time. This system is all about trying to alleviate the situation and bring it under control. It is mainly aimed to work passively in case of an unauthorized intrusion. It is also created to protect any member trapped inside the house with the intruder. Live video footages will be taken, thus keeping track of the intruder. Even if someone manages to enter the house without setting off the alarm, door locks remotely operable by the home-owner can initiate lockdown, call the police and thus help law-enforcers to do their job.</p> <p>The system will enable the user to remotely access the features, live footage and door-locking mechanisms along with the map of the house via an app on their mobile phones. It will also have an option of whether alerting the cops, firemen, paramedics or just call a close relative. People trapped inside the home during the intrusion can also call for help using a panic button present nearby in their current room.</p> |
| OBJECTIVES | <ul style="list-style-type: none">• To detect unnatural movements of intruders and set off an alarm.• Activating/Deactivating the security system via a mobile phone• Control of the lights, doors and windows of the house via smartphone.• Send live footages of intrusion and alert the home-owner/s via mobile phone• To alert cops, firemen, etc. in case of an emergency.• To maintain status quo of members trapped inside the home during the intrusion, if any. |
| METHODOLOGY | <ul style="list-style-type: none">• Creating a detection system using <i>Matlab</i>• Installing live-feed cameras for live footage of intrusion.• Installing proximity sensors and motion trackers to track movement of intruders. |
| BUDGET FOR EQUIPMENT | huehuehuehuehue |

PLAN OF WORK The Plan of work is shown in the table below:

| Table 1: Plan of Work | |
|-----------------------|-----------------|
| Work | Time |
| Lyadh | First one month |
| Lyadh | 2 months |
| Lyadh | 2 months |
| Real work | 1 month |

PLACE AND DATE Kolkata

SIGNATURE