AUST
CSE 3216
Microcontroller based System Design Lab

Project Title:	Obstacles Avoiding Robot
Project Number: (assigned by MSD)	001
Primary Customer: (provide name, phone number)	Teacher's Name –SK.Murad Hasan Anik Contact no. – 01670098315 Teacher's Name – Rayhan Ahmed Shimanto Contact No. - 01731877575
Sponsor(s): (provide name, phone number, email, and amount of support)	Self
Preferred Start Term:	Fall 2016
Mentors:	SK.Murad Hasan Anik Rayhan Ahmed Shimanto

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Received By	SK.Murad Hasan Anik Rayhan Ahmed Shimanto	Date 14/12/2016

Project Information

*Overview:

Let us consider a situation where we need to solve a critical situation but cannot use direct manpower. Such as in ruins of an old building or a basement. A robot that can use its own intelligence and sense to detect obstacles all by itself and avoid it and also record the situation or transmit direct video feed to the receiver will come handy in this kind of situation. It will also give the workers or rescue workers an idea about the situation.

Benefits :

Overall,the whole country will benefit from the project as it will help the govt. in crucial situations like the destruction of Rana Plaza.

Preliminary Engineering Requirements (ER):

The project will contain both hardware and software. We will be needing 6 to 7 weeks to complete the project. We will be using Java or C as programming language.

Equipments :

Battery,Laptop,Atmel,Proteus,Arduino,Light sensors,Sound sensors,Motors,Wires,Video Cam etc

Constraints:

1.Budget Problem
2.Time Problem
3.Equipment Problem

Budget Information:

It might cost around 5000 to 6000 depending on the equipments and quality of the equipments and on how good the project will be built.