

COAL MINE ROBOT

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ABSTRACT

This project tackles the problem of coal mine accidents which results in the death of several people per year. It is found out that the rate of fatality in the coal mine industry is nearly six times the rate for all private industry. And most of these accidents are due to toxic gasses, fires and lack of rescue system.

By implementing a Coal Mine Surveillance robot, which can move around unmanned in the mine and detect the level of different toxic gases and temperature level and report them live to the control room, this level of fatality can be considerable reduced. The objective of this project is to accomplish this task.

From a technical aspect this project is software and hardware oriented project. It requires very specific types of sensors, and innovative methods in transmitting and receiving data. Because a conventional approach will not do much good from an industrial aspect

The project can be considered valid if it can detect different sorts of gases, the temperature and give a warning to the miners inside the mine in case of a danger, at the same time transmitting all the data to the control panel. The data send to the control panel can make a lot of difference, setting up and giving strategies to a rescue team for rescue will make the rescue very efficient.