

**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING**

**PROJECT TITLE :**

**WIFI Controlled Camera Rover**

**UNDER THE GUIDANCE OF**

**G.BALARAM**

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# ABSTRACT

Areas which are inaccessible to humans nearly always demand vehicles that are capable of dealing with difficult terrain. Just a few examples: investigations of mining accidents, searches in inaccessible construction sites, mine detection etc..All of these applications call for a high degree of reliability, redundancy and autonomy – all features of the new "Shrimp" vehicle concept.

This proposed work gives a broad idea about designing a remotely controlled two-wheeled robotic rover over a Wi-Fi network by using an Arduino Uno or any other IoT device connected to an Wi-Fi module. The robot can be controlled both in manual as well as in automated mode with the help of Arduino microcontroller.The proposed work considers a wifi controlled Rover with a camera that can inspect any kind of locations and can analyse the surrounding conditions with the help of the camera with high speed and accuracy. The data gathered can be analyzed to detect faults in significantly less time. This Rovers can be controlled remotely for inspection purpose and can proactively address the surroundings. Further advancement in our project can provide surveillance even in defense areas.