

Multi-Purpose Military Spying Robot

Dr. Manohar Chaudhary¹, Gaurav Varpe², Prathmesh Kadam³, Aditya Jahagirdar⁴, Suyash Maske⁵

Professor, Department of Computer Engineering¹

Students, Department of Computer Engineering^{2,3,4,5}

Sinhgad Institute of Technology and Science, Kusgaon(BK), Pune, India

Abstract: Robotics has been a staple of advanced manufacturing for over half a century. As robots and their peripheral equipment become more sophisticated, reliable and miniaturized, these systems are increasingly being utilized for military and law enforcement purposes. Mobile robotics play an increasingly important role in military matters, from patrol to dealing with potential explosives. "With suitable sensors and cameras to perform different missions, mobile robots are operated remotely for reconnaissance patrol and relay back video images to an operator. Now-a-days android smart phones are the most popular gadget. There are multiple applications on the internet that exploit inbuilt hardware in these mobile phones, such as Bluetooth, Wi-Fi and ZigBee technology to control other devices. With the development of modern technology and Android Smartphone, Bluetooth technology aims to exchange data wirelessly at a short distance using radio wave transmission comprising features to create ease, perception and controllability. In this paper we have designed a robot that can be controlled using an application running on an android phone. It sends control command via Bluetooth which is interfaced to the controller. The controller can be interfaced to the Bluetooth module through UART protocol. According to commands received from android the robot motion can be controlled

Keywords: Bluetooth module, Control, Metal Detector, Gas Detector, Object Detector.

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