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Smart Phone Operated Multipurpose Agricultural Robot

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Abstract: *This robotic vehicle is an agricultural machine of a considerable power and great soil clearing capacity. This multipurpose system gives an advance method to sow, POW, water and cut the crops with minimum man power and labour making it an efficient vehicle. The machine will cultivate the farm by considering particular rows and specific column at fixed distance depending on crop. Moreover the vehicle can be controlled through Bluetooth medium using a Android smart phone. The whole process calculation, processing, monitoring are designed with motors & components interfaced with microcontroller. The primary goal in creating this robot was to simply make farming easier for farmers in the future. The fields of robotics and large-scale agriculture have seen several significant breakthroughs in the current situation. Both technologies are used in this essay. The DTMF approach was employed in this study (Dual Tone Multi Frequency). A cell phone is used to manage our robot, allowing us to make it converse widely and across great distances. This will enable the farmer to easily manage his agricultural tasks from a distance without having to enter the field.*

Keywords: Infrared Signals, PIR sensor, Obstacle sensor, Radio Frequency Transmitter and Receiver

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