

Implementation of Autonomous Robot for Pesticide Application and Harvest Transport, Controlled through an Android Application

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Abstract: *The project aims to develop a smart farming solution that integrates autonomous pesticide spraying and crop harvesting, managed through a user-friendly Android application. In essence, it seeks to create a robot capable of automating two critical farm tasks. This innovative technology is poised to boost agricultural efficiency by automating both pesticide application and crop harvesting processes. Equipped with advanced features like autonomous navigation, the robot can navigate the farm autonomously, saving time for farmers and ensuring precise spraying and harvesting. Integration with an Android application provides farmers with an intuitive interface to control and monitor the robot. This project envisions a sustainable, technology-driven farming approach, reducing manual labor for pesticide application and crop harvesting. With this robot, farmers can anticipate heightened productivity, improved crop yields, and a more streamlined farming experience. The initiative aligns with the objective of advancing agricultural practices through automation, benefiting farmers and the farming ecosystem as a whole*

Keywords: Autonomous, Pesticide spraying, Harvest Transport Robot, Android application

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