



Insect Hunter

Ramis Insect Hunter robot is the most environmentally friendly available insect extermination system designed for farmland settings. All of the robot's functions are powered by a solar system. The robot's wheels have been chosen considering that it is supposed to move within a muddy terrain, and the implemented suspension system can also allow precise movement when facing obstacles in its path. Its different functionality and features will enable the robot to operate in a fully automated capacity.

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Insect Hunter Specs

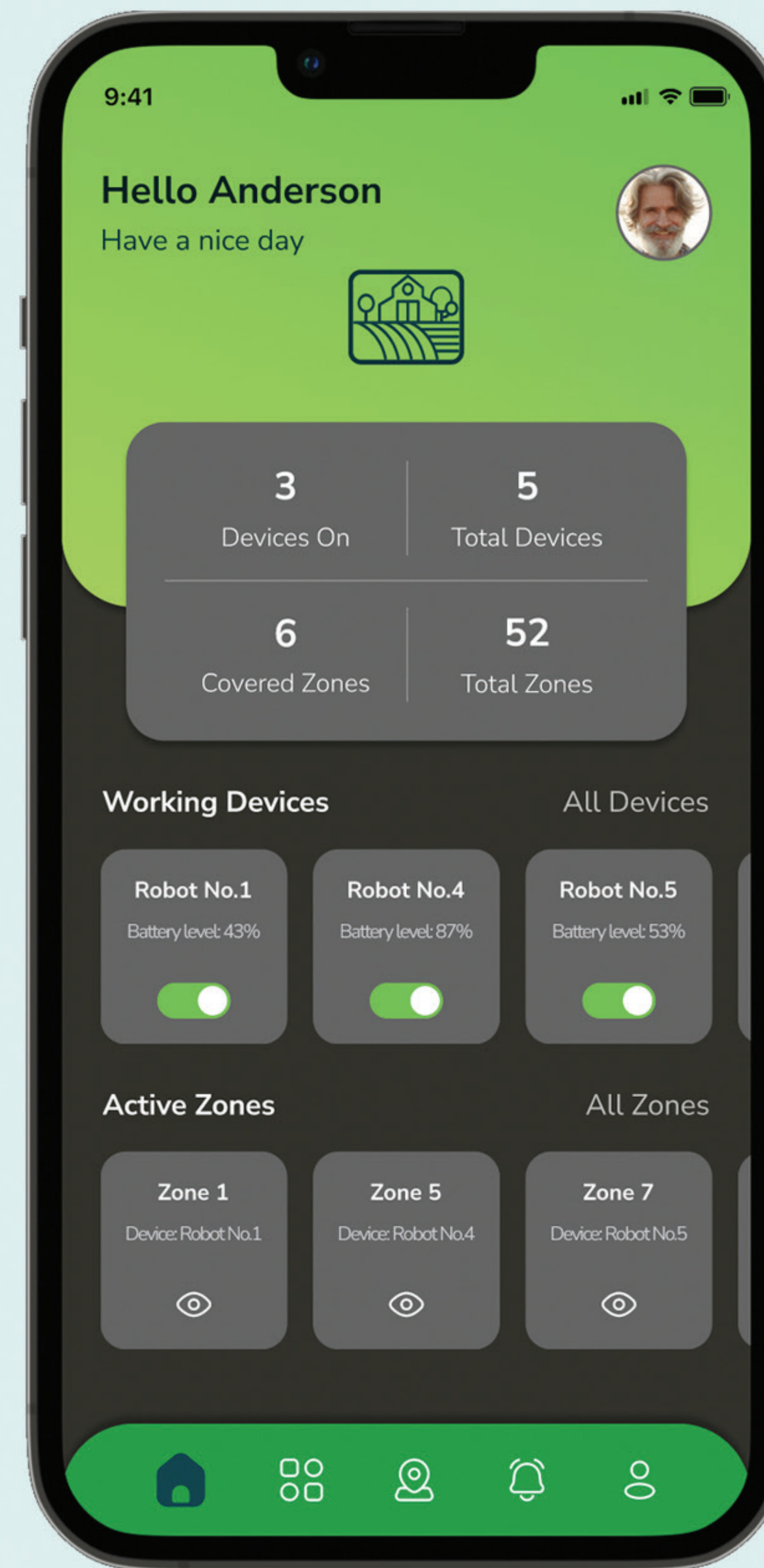
Speed	50 rpm
Navigation system	Lidar and SLAM System
field of view (horizontal)	360 Degree
Lidar Distance Range	25 Meters
Alerting System Protocol	GSM/GPRS
Motion Detection Range	7 Meters
Power Supply	Solar System
Power Generation Capacity	480 W
Total Weight	40 Kg
Robot Dimensions	140 cm Height* 60 Width * 100 Length

Features:

- **Navigation System:** Using Lidar and SLAM technology, the robot can navigate around the farm and analyze its surrounding area up to a radius of 25 meters.
- **Animal Repeller and Alert System:** Insect Hunter is equipped with sensors that allow it to detect large animals and send alerts to the users when one is detected. In the case of small animals, however, the robot uses Ultrasonic waves that naturally repel animals common in farms.
- **Extermination System:** Using phototaxis behavior in insects, Insect Hunter attracts the insects on a farm with a UV light bulb and pulls the insect inside the device using its suction system. The insects are then subjected to a high voltage for extermination.
- **Power System:** The solar system is the power source for all of the robot's functions. The robot can be fully charged with three hours of receiving sunlight and can operate with the produced power for up to twelve hours.

Mobile Application

Using the mobile application of the Insect Hunter, the user can manage different functions of the robot, including its operating hours during the week, how it empties its tray, which farm zones it is working on, and its battery percentage. The application also logs all the alerts sent to the user and shows the zones that have already been covered.



RoboGol

RoboGol is an autonomous flower-picking or fruit-picking robot that has been developed to be used inside greenhouses. The robot uses computer vision to detect ripe fruits and flowers that are ready to be picked. It would then use its mechanical arm with six movement axes to harvest the crops.

Saffron Harvester

Saffron Harvester is able to autonomously harvest saffron flowers, separate their stigmas from the flower, and store the product in its main chamber. This robot also runs on solar power and can store up to 50 kg of saffron. Using this robot would significantly reduce the cost of producing saffron for the farmers and can completely automate its harvesting.