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Automating the Process of Drying Coffee on Patios

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This paper reports on the development of an innovative automation technology to replace human labor in the coffee drying process. The labor employed in the conventional coffee drying process is costly; therefore, this project aims to significantly reduce production overhead. The proposed method involves an autonomous robot, which is powered by electricity and guided by an electromagnetic field generated by a wire buried below the surface of the yard and detected through the use of inductive sensors. A microcontroller is used to process the analog signals generated by the sensors and use them to keep the robot on a predetermined route. It is concluded that the implementation of this project could lead to a reduction of the workmanship in the drying significantly, reaching thus, a great milestone in the technology of drying coffee on patios.

Keywords: Robot, Drying, Coffee, Patio.

Biography

Yuri Nvais Araujo is a master degree student of industrial engineering at the federal university of brazil. He developed a autonomous machine to replace the coffee drying labor in the yard.

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