

Design of a line-following robot using STM32 microcontroller

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Abstract: In practice, establishing and monitoring movement paths for robots is an important requirement. This topic focuses on designing an automatic line-following robot system using the STM32 microcontroller. The project aims to build an efficient solution for tracking straight lines on hard surfaces, with the goal of application in the industrial and domestic robotics fields. Through theoretical research and experimental implementation, this system will provide autonomous operation capabilities and optimize robot performance.

Keywords: Line-following robot, STM32 microcontroller, automatic system