

Design of a line-following robot using PIC 16F877A

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Abstract: In the context of the increasing application of automation technology in various fields, this topic focuses on the design and implementation of a line-following robot system. The objective is to build an effective solution for determining the robot's direction using the PIC 16F877A processor. The research method combines both theory and experimentation to ensure the stability and accuracy of the system. The expected outcomes of this topic not only provide a specific application solution but also contribute to the future development of automation technology.

Keywords: Line-following robot, PIC 16F877A, Automation