

Design and manufacture of a DC motor control module with computer interface

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Abstract: This topic focuses on designing and manufacturing a DC motor control module capable of communicating with a computer. The context of the topic arises from the high demand for precise control of mechanical systems in various industries. The objective of the research is to build an automatic control system to optimize the performance and reliability of DC motor operation. The method combines theory with experimentation, including technical analysis, electronic circuit design, and computer interface programming. The expected outcome of this research is the creation of a flexible and efficient solution for managing DC motors in industrial applications, contributing to increased productivity and reduced operating costs.

Keywords: DC motor, Control module, Computer communication, Automatic system, Industrial control