

Building a control and monitoring system for a 3D printer.

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Abstract: In the context of 3D Printing technology increasingly developing widely across many fields, this topic focuses on building an intelligent control and monitoring system for 3D printers. The goal is to optimize the 3D printing process by precisely controlling parameters such as temperature, printing speed, and final print quality. The research method includes a combination of automatic control theory and experimentation on actual 3D printers. The expected result is a system that can enhance work productivity, minimize errors, and increase the widespread applicability of 3D printing technology in manufacturing enterprises.

Keywords: Control system, 3D Printer, Digital monitoring, Automation technology