

Design and simulation of a 3D printer model

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Abstract: In the rapidly developing digital age, the design and simulation of 3D printer models have become indispensable tools in various fields such as product manufacturing, scientific research, and entertainment. This project aims to build an automated 3D printing system by combining design theory with experimental implementation. The method uses software simulation to optimize the 3D printing process, while testing different materials and printing conditions to find the most effective solution. The expected outcomes of the project not only contribute to improving production efficiency but also open up many potential applications in the future.

Keywords: 3D printing, simulation, automation, printing materials, manufacturing engineering