

Design and manufacture of 3D printer hardware

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Abstract: This topic aims to research, design, and manufacture a hardware system for 3D printers, meeting the demand for rapid production of plastic products with high complexity. Through the process of technical requirement analysis and experimental deployment, the topic aims to build an effective automation solution to reduce product manufacturing costs and time. The research results are expected to contribute significantly to the field of 3D printing technology, while opening up many application opportunities in industries, especially furniture and medical sectors.

Keywords: 3D printer, hardware, design and manufacturing, automation, rapid production