

Design and construction of a color mixing unit in a smart 3D printer

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Abstract: In the context of the growing development of 3D printing technology, the problem of creating suitable color schemes for each type of printing material has become urgent. This topic focuses on developing an automated system to optimize the color selection process in smart 3D printing. Through theoretical and experimental research, the topic aims to build a unique color scheme based on material characteristics as well as the requirements of the final product. The expected results of this topic not only improve product quality but also reduce material waste, making an important contribution to the sustainable development of the 3D printing industry.

Keywords: 3D Printer, Color Mixer, Green Technology