



FINAL YEAR PROJECT REPORT

3D PRINTER

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For degree of
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ABSTRACT

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3D printer is transforming the world by changing the way we produce objects. 3D printing is known as additive manufacturing process where objects are made layer by layer by adding plastic material (namely PLA). This process allows designers to create models at a very low cost. The printer is mainly designed for the purpose of prototyping. Initially a CAD model is designed on Auto Cad which is then converted in to G-Code. The G-Code is a language which is understandable by printer that tells the actuator part of the printer as to what function is to be performed. The Auto Cad generates .STL files which is converted in to G-Code using a software CURA. The machine can be operated using a smart LCD controller or by Host software between the PC and the printer that is pronterface which transmits the G-Code through universal serial bus (USB).

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