

Requirement Specification Document.

“3D Printer”

User Perspective: User should be able to upload whatever 3D model they want to 3D Printer empowered by Arduino microcontroller and then plastic shape will be printed on Print Bed.

Designer Perspective: 3D Printer is sophisticated equipment thus it should be designed properly without any flaw. It consists of several crucial parts namely: Print Bed is the place where all 3D shapes are actually printed, Extruder is the core of the printer where plastic gets drawn, melted and pushed out afterwards, stepper motors, motherboard, user interface and SD Card Slot. Cooling system should be deployed too.

Constraints: The main constraints are the price of details and also free space which should be allocated to build 3D Printer.