PGG 3-D Rotation Printer

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Nowadays, 3-D printers are considered as one of the most innovative technical developments. Until now, numerous processes, constructions as well as many possibilities of application have been introduced according to the idea of rapid prototyping. Especially aerospace engineering, medicine and private consumers, being able to produce their own construction sets and repair technical devices, seem to take advantage of these new opportunities. The topic of our project is the development of a 3-D rotation printer, i.e. a FDM (Fused Deposition Modeling) based 3-D printer printing on a rotating axis as opposed to common 3-D printers. With this 3-D printing equivalent of an engine lathe, we want to add another component to the huge field of 3-D printers and provide benefits for certain applications, like producing rotationally symmetric objects, e.g. heads, bolts and turbines.

Awards Won:
Second Award of $2,000