PAD PRINTING

TECHNOLOGY

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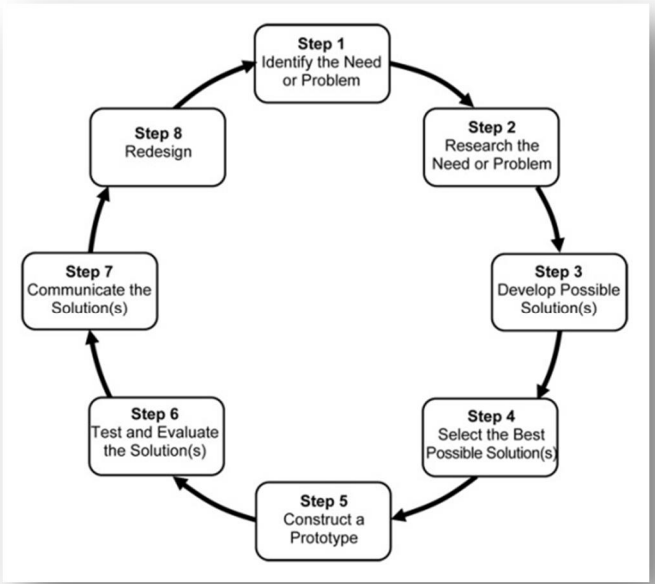
Introduction

We have started a new service here at PPT. A single source for: CAD Modeling, Prototyping with 3D-Printing and Pad Printing on the commercial 3D products. We utilize the CAD programs and have more than 4 years of experience. We have been in development for over 2 years with design and 3D-Printing prototypes.

Mechanical Design and Engineering

We utilize CAD programs such as **Solidworks®** and **Autodesk® Inventor®** to aid in design and testing of mechanical parts. We design parts and assemblies from concept to mechanical drawings to bring customers' ideas to life. We provide all types of files such as STL and STEP. Our CAD engineers have certifications issued by SolidWorks.

3D-Printing and Prototyping

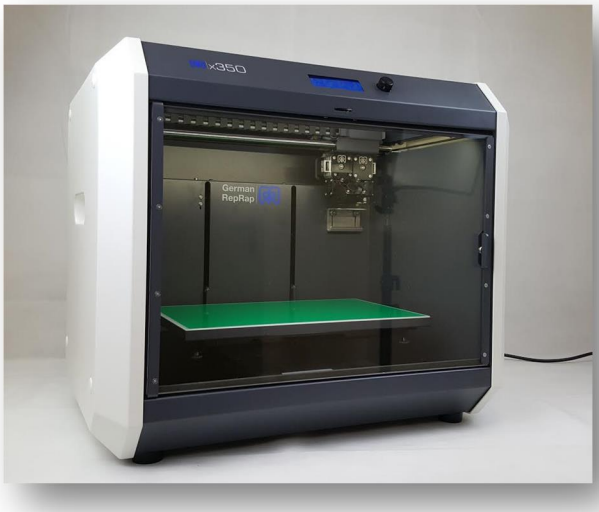


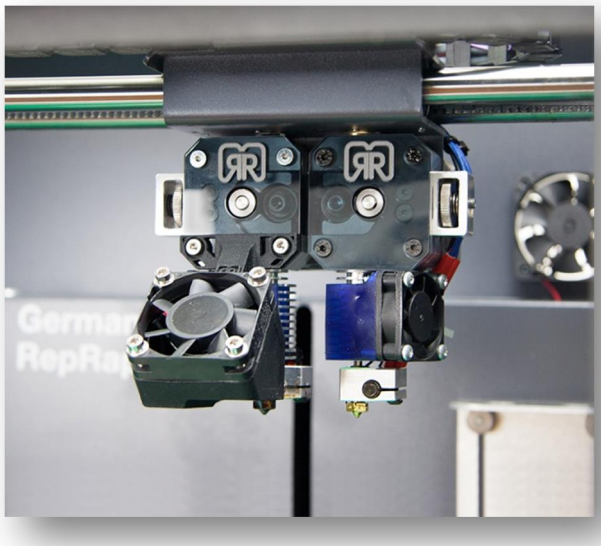
We use modern FDM 3D-printing. We use 3D-printing to prototype designed parts and make small functioning and production parts. The advantages of 3D- printing are great and one among them is speeding up the process of the design wheel.

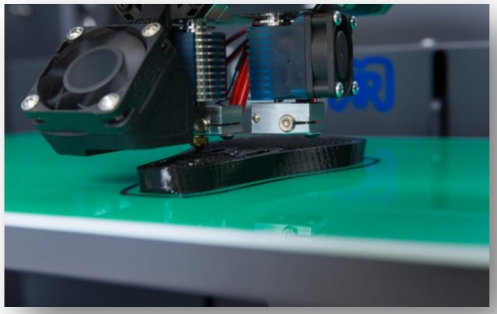
Sending a part out to be CNC'd or molded can take more weeks and the cost is very high. There are mold design costs, material costs and labor costs. If a part is made incorrectly or adjustments need to be made; it costs even more time and money (another mold designed, more material used). With 3D-printing; there's less time being used on production and prototyping on your part. Parts are often done the next morning! Making adjustments is faster because we identify the issue or component that needs to be adjusted much sooner; there's no delay in returning to CAD to make the adjustments. 3D-printing reduces time and money spent on part design; this puts you in ahead of your competition.

Our Printers

We utilize German engineering and technology to aid in our 3D-printing and prototyping. We house **German REP-RAP x350 Pro**'s. They are equipped with advanced dual extruders with a resolution of .05mm and accuracy of 200 microns.







These advanced extruders allow us to print in many materials including XT-CF20 which is a carbon fiber infused filament. We have invested many hours into testing materials and finding their perfect print settings. We can print in PLA, ABS, Carbon Fiber filaments (PLA, PETG), PET, TPU, Polycarbonate, and more. Our printer has a heated build plate which helps with making better prints and keeps parts from warping.

We use the best slicer in the business! We utilize **Simplify3D®** for the operation and setup of printing parts. Used in the industry by many and the preferred software of professionals and educators.

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