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Additive manufacturing- the Realm of Rapid Prototyping by Julia Roger

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The world has made rapid advances in the last decade so much so that there has been a move to digitally master the world. It is not surprising considering how much we have come to depend on artificial intelligence and the World Wide Web for advancing our ambitions. The world of manufacturing has not been able to keep itself in isolation from this phenomenon. And the one of the forerunner of this symbiotic relationship is the process of rapid prototypesRapid Prototyping. This process involves the machinated construction of parts and objects using a technology called the additive manufacturing technology.

Rapid Prototyping was conceptualized in the 1980s in order to produce certain parts and most often to design models for machines. In the current age they have become the norm of the day expanding their base of operations to insinuate themselves into a more vast range of applications. The creation of any part and model begins from using computer aided design or CAD and transforms them into a physical model. It uses this design as a starting point and a future point of reference as it builds the layers of whichever material may be requires to buildbuilding the model in mind. This form of prototyping has the advantage of producing any model that is required by the manufacturers and clients available. The form of communication between the virtual and the real is the STL file format which formulates the various shapes and designs. rapid prototypesRapid Prototyping business has grown by leaps and bounds with companies making use of this technology to create accurate and cutting edge designs that would enable their success in this cutthroat competitive world. It has diversified itself and is now available in many different forms that are in competition to provide their best versions to the world. It is to be expected that the advantages of the virtual world be harnessed to give the physical world a new shape and design. It is effective is cost cutting and hence is now the brand new face of the manufacturing world.

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