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3D printing materials and methods

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Additive manufacturing is growing rapidly over the last couple of years continuing to take over more sectors of industrial production. Due to it's cost-effective, and more reliability and versatility, AM is currently adapted as the optimum route for engineering production. The substantial growth numbers alongside its effectiveness led countries to fund more research projects to further develop the technology. As more production equipment got developed, new materials got available allowing the technology adaptation in more industries. Currently, there is a wide range of materials categorized under six main different types, ranging from polymers, metals, composites, ceramics and biomaterials, and seven different processes; ranging from DED, power bed fusion to material/binder jetting and vat photopolymerization. Producing more product applications was the main focus of research, especially after the breakthrough in the metal AM industry, allowing the technology to take over the industries of automotive, aerospace and medical equipment for its accuracy. There are a lot of challenges when comes to the usage of additive manufacturing such as the speed of production and its consistency and as such companies and institutions the world over are racing to develop a faster and more consistent additive manufacturing technologies and introduce more uses for the technologies.

Biography

Mohammad Bashier is the Co-Founder of Fabrigate at Egypt. He studied his graduation in Helwan University. He also worked as automotive engineer in Toyota, Cairo, Egypt.

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