



Utilizing DLP Technology for End-Use Parts Production

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Abstract:

Fundamentals of SLA/DLP 3D Printing: Understanding how the optical components (such as light source, Digital Micromirror Array, illumination and imaging optics), file processing software (tessellation techniques, support addition methods, anti-aliasing) and printing approach (such as physics of adhesion in bottom-up printing, CLIP technology and top-down printing) affect production speed and part quality. Differentiating between factors affecting true performance versus brochure myths and obscure technical data and how to make the right machine purchase decision for a given application. How SLA/DLP technology is being used for end-use parts production (for precision industries such as dental, hearing aid and jewelry) will be covered.

Biography:

CTO and Co-Founder of 3Dware, Mohit built his first 3D Printer at the age of 19. With deep interest in polymer chemistry and automation, Mohit formulated proprietary materials for SLA/DLP 3D printing while pursuing Mechanical Engineering in BITS Pilani. He has also designed the world's first 4K Top-Down DLP 3D Printer. Currently, his research is focused on developing ceramic and wax loaded 3D Printable photopolymers which could potentially disrupt the dental restorations and jewelry manufacturing domains.



Publication of speakers:

- Mohit Kumar et al ; Systems Biology Approaches for Therapeutics Development Against COVID-19, 2020 Oct 28
- Mohit Kumar et al ; Customizing Morphology, Size, and Response Kinetics of Matrix Metalloproteinase-responsive Nanostructures by Systematic Peptide Design, 2019 Feb 26
- Mohit Kumar et al ; Pd/ZnO nanorods based sensor for highly selective detection of extremely low concentration hydrogen, 2017 Mar 22
- Mohit Kumar et al ; Analytical fuzzy approach to biological data analysis, 2017 Mar 24
- Mohit Kumar et al ; Tunable antireflection from conformal Al-doped ZnO films on nanofaceted Si templates, 2014 Apr 26

Webinar on 3 D Printing , November 23, 2020; Dubai , UAE.

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