

# KUNDAN KUMAR PRASAD



## Contact

### Address:

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### Google Scholar/ResearchGate

[Kundan Kumar Prasad - Google Scholar](#)

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## LANGUAGES

Bhojpuri, English, Hindi, Nepali,

## WORK EXPERIENCE

- ❖ **2012- Vocational training:** DLW, VARANASI, INDIA
- ❖ **2015- ANSYS TRAINING:** CEPTA, NOIDA, INDIA
- ❖ **2016- Internship,** NIT, SURTHAKAL, INDIA
- ❖ **2020- Trainee:** CSIR-CSIO, CHANDIGARH, INDIA

## SUMMARY

Experienced in precision manufacturing process with knowledge in the field of CAD design software. Hand on experience on metrology instrument such as optical and mechanical profilometer

## AREA OF RESEARCH WORK

**Field of expertise:** Surface texturing, Precision Machining, Precision Metrology

**Research domain:** Structured optics fabrication, rotational and non-rotational optical components fabrication, Metrology of advanced optical components, Artificial intelligence for process optimization, optical polishing

## EDUCATION

- **2020-2025 - Doctor of Philosophy:** Precision manufacturing -Indian Institute of Technology (IIT) Delhi, India (**Pursuing**)  
**PhD thesis title:** Development of structured freeform surface for optical applications
- **2020- Master of Technology:** Production & Industrial Engineering (2018-20202)- Punjab Engineering College, Chandigarh, INDIA  
**Master thesis title:** Fabrication of Hydrophobic Surface by Single & Hierarchical texturing using Precision Machining
- **2017- Bachelor of Technology:** Mechanical Engineering, NERIST, Arunachal Pradesh, INDIA

## SELECTED PUBLICATIONS

- **K. K. Prasad**, R. Sharma, V. Mishra, R. Singh, D. R. Burada, and G. S. Khan, Development of Micro-structures on Curved Optical Surfaces using Ultra-Precision Machining, in Optica Design and Fabrication Congress 2023 (IODC, OFT), Optica Publishing Group, 2023.
- R. Singh, R. Sharma, V. Mishra, **K. K. Prasad**, D. R. Burada, and G. S. Khan, Investigations on Post Processing of a 3D-Printed Aspheric Lens using Ultra-Precision Diamond Turning, in Optica Design and Fabrication Congress 2023 (IODC, OFT), Optica Publishing Group, 2023.
- Prakash, Chander, Sunpreet Singh, Vinod Mishra, Rohit Sharma, **K. K. Prasad**, Vinod Karar, Alokesh Pramanik, S. Shankar, and Dharam Buddhi, Ultra-Precision Diamond Processing of Biodegradable AZ31 Alloy for Orthopedic Application, Surface Review and Letters 29, no. 09 (2022): 2250116.
- Kumar, Mukesh, S. K. Tamang, Dipika Devi, M. Dabi, **K. K. Prasad**, and R. Thirumalai, Modeling and optimization of material removal rate and surface roughness for Al6010 HMMCs on WEDM using Response Surface Methodology, Journal of Ceramic Processing Research 23, no. 3 (2022): 373-382.
- **K. K. Prasad**, T. Roy, M. M. Goud, Vinod Karar, and Vinod Mishra, Diamond turned hierarchically textured surface for inducing water repellency: Analytical model and experimental investigations, International Journal of Mechanical Sciences 193 (2021): 106140.
- **K. K. Prasad**, Santosh Kumar Tamang, and M. Chandrasekaran, Comparative study on cutting force simulation using DEFORM 3D software during high-speed machining of Ti-6Al-4V, In Key Engineering Materials, vol. 856, pp. 50-56. Trans Tech Publications Ltd, 2020.