AVIJIT PRAKASH

Contact

Address:
217, Dronagiri Hostel, IIT Delhi,
Hauz Khas, New Delhi
Delhi - 110016

Phone:
+91 90396 40820

Email:
prakashavijit@gmail.com
avijit.prakash@iitdalumni.com

Languages

English – Fluent
Hindi – Native
German – A1+

Skill Highlights

- Optical Design
- MATLAB
- Fusion 360
- Embedded Systems for Instrumentation

Summary

Optical engineer specializing in design of optical system and components comprising of Head-Up Display, Microscopes, Laser optics, freeform optics, spectroscopes, Li-Fi optics, Intraocular Lens (IOL). Experienced with all stages of the development cycle for customized optical specifications requirements. Well-versed in optical design tool Zemax Opticstudio and programming languages like MATLAB and Python.

Area of research work

Title of thesis: Design and Development of hybrid optics for optical engineering applications

SeNSE**, IIT Delhi**

Education

Master of Technology: **Instrument Technology**
2012-2014
IIT Delhi (INDIA) & Universität Stuttgart (GERMANY)

Bachelor of Engineering: **Electronics and Communication**
2006-2010
SIRT Bhopal (MP), India

Publications

Sabui, D., Chatterjee, S., **Prakash, A**., Roy, B., & Khan, G.S. Design of an off-axis freeform diversity receiver to improve SINR performance of a multi-cell VLC system. *Optics Communications*, *510*, 127937 (2022).

Prakash, A., Gupta, A., Burada, D. R., & Khan, G. S. (2023, April). Investigations on Performance Parameters of Phakic Intraocular Lens using a Wavefront Sensor. In *Bio-Optics: Design and Application* (pp. DM2A-7). Optica Publishing Group.

Sabui, D., Chatterjee, S., Prakash, A., Roy, B., & Khan, G. S. (2022, October). An improved angular diversity receiver structure for indoor VLC system using off-axis freeform optics. In *Novel Optical Systems, Methods, and Applications XXV*(Vol. 12216, pp. 164-168). SPIE.