



Prof. Nakarmi Bikash, PhD.

Full Professor, Nanjing University of Science and Technology,
Nanjing, China

Honorary Chair for Research and Innovation, MBUST, Chitlang, Nepal
VP, Nanjing Tianlu Flying Auto, Nanjing, China

Founding Member of RCLAE, Samadhan Engineering, Green Vaahan,
Nepal

Chair, IEEE Photonics Society Nanjing Section Chapter

Professor Bikash Nakarmi (Senior Member, IEEE) is a globally distinguished Nepali scientist, academic leader, and technology entrepreneur with more than two decades of international experience spanning Nepal, China, South Korea, Kazakhstan, and the United Arab Emirates. He currently serves as Full Professor at the College of Electronics and Information Engineering, Nanjing University of Aeronautics and Astronautics (NUAA), China, where he is also affiliated with the Key Laboratory of Radar Imaging and Microwave Photonics, Ministry of Education of China.

Prof. Nakarmi received his B.E. degree in Electronics and Communication Engineering from Tribhuvan University, Nepal, in 2004; his M.E. degree in Information and Communication Engineering from Harbin Engineering University, China, in 2008; and his Ph.D. degree from the Korea Advanced Institute of Science and Technology (KAIST), Republic of Korea, in 2012. Following his doctoral studies, he served as R&D Manager at InLC Technology, Korea (2012–2013), before pursuing postdoctoral research at Nanjing University, China (2012–2014), and subsequently as Research Professor at KAIST, Korea (2014–2016).

His primary research interests encompass microwave photonics, optical communication systems, nanostructure-based biosensors, AI-assisted photonic signal processing, and the emerging field of Low Altitude Economy (LAE). His work focuses on photonic techniques for robust waveform generation, interference mitigation, and target detection and identification, with significant contributions to next-generation radar and communication systems as well as autonomous vehicles — spanning both ground and aerial platforms.

Over the past five years, Prof. Nakarmi has led multiple national and international research projects funded by prestigious agencies including the National Natural Science Foundation of China (NSFC), the Belt and Road Initiative, and the Ministry of Education and Science of Kazakhstan. During this period, he has secured in excess of USD 1 million in competitive international research grants, delivering all projects on schedule with outstanding outcomes. Most recently, he has submitted a long-term collaborative proposal (10-year horizon) to the

Korean Ministry of Science and Technology, in partnership with Gyeongsang National University, aimed at developing a space-environment simulation facility on Earth.

Beyond academia, Prof. Nakarmi serves as Vice President of Research and Applications at Nanjing Tianlu Flying-Auto, China. In this capacity, he has demonstrated strong technical leadership through the successful demonstration of flying car prototypes and the development of human-carrying drone systems at the commercialization-ready stage, bridging advanced research and market-ready innovation.

Prof. Nakarmi is a founding member of the Research Center of Low Altitude Economy, Nepal; Samadhan Engineering Nepal; Green Vaahan, Nepal; and the startup Axinaux, Korea. He also holds the position of Honorary Chair of Research and Innovation at Madan Bhandari University of Science and Technology, Nepal.

To date, Prof. Nakarmi has authored or co-authored approximately 150 research publications, comprising 55+ SCI-indexed Q1 and Q2 journal papers published in IEEE and OSA venues, 75+ international conference papers, and more than 20 keynote and invited talks. He additionally holds 2 patents registered in Korea on non-invasive techniques for measuring blood glucose levels in humans.

Prof. Nakarmi is a Senior Member of both IEEE and the Optical Society of America (OSA). He has served on the organizing committees of SPIE Photonics Asia 2012 and IEEE ICECIT 2021, and as Conference Chair of the 1st IEEE International Conference on ICT and Photonics (ICTP 2026), Nepal. He serves on the editorial boards of several journals and conferences, including *Wiley Sensors* and *Nature Scientific Reports*, and acts as a peer reviewer for journals published by IEEE, Elsevier, Wiley, Optica, and SPIE. He currently serves as Chair of the IEEE Photonics Society, Nanjing Section Chapter.