



DR. RUFO I. MARASIGAN, JR.

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Dr. Rufo I. Marasigan Jr., DEng-CpE, PCpE, is a highly skilled computer engineering specialist and AI-driven systems researcher whose work centers on artificial intelligence, computer vision, embedded systems, and data-driven engineering solutions. His research portfolio demonstrates advanced applications of deep learning (YOLO, GANs), blockchain technologies, UAV systems, and IoT-based intelligent devices, reflecting strong capability in designing innovative and scalable technological systems.

Currently affiliated with the Polytechnic University of the Philippines (PUP) and previously with the Technological Institute of the Philippines (TIP), Dr. Marasigan has held key academic roles including Graduate Programs Coordinator, LMS Coordinator, Research Coordinator, and faculty member across undergraduate and graduate programs. His extensive involvement in curriculum development, instructional material design, and learning management systems highlights his leadership in technology-enhanced education and outcomes-based teaching.

Dr. Marasigan is a prolific researcher with numerous Scopus-indexed and IEEE publications, contributing to areas such as AI-based detection systems, agricultural analytics, smart devices, blockchain credential verification, and predictive modeling using neural networks. His work spans both theoretical and applied research, including innovations like CocoSense (AI-based plant detection), AI surveillance systems, and LIDAR-based environmental monitoring tools.

He is also actively engaged in research project leadership and development, participating in government- and industry-funded initiatives such as AI systems for aerial data analysis, smart hardware development, and drone-based environmental monitoring, demonstrating strong integration of research, development, and real-world application.

Beyond academia, Dr. Marasigan actively contributes as a trainer, speaker, and technical expert, conducting workshops and seminars on AI applications, data science, robotics, and research methodologies. He has organized numerous training initiatives and contributed to faculty development programs, blockchain training, and AI workshops, supporting capacity-building in higher education and industry sectors.

His academic excellence is reinforced by multiple international and national grants and recognitions, including USAID research funding, CHED scholarships, and international training programs, as well as participation in global conferences and collaborations. His exposure as a visiting scholar in artificial intelligence programs abroad further strengthens his international research profile.

Dr. Marasigan is actively engaged in professional organizations such as the Institute of Computer Engineers of the Philippines (ICpEP), IEEE, MRSP, and NRCP, contributing to both academic and scientific communities. His involvement spans

technical committees, research collaboration, and professional development initiatives, supporting advancements in engineering education and innovation.

Dr. Marasigan embodies a technology-forward academic and researcher whose expertise bridges artificial intelligence, engineering systems, and digital transformation in education. His work exemplifies the integration of advanced research, instructional innovation, and applied technological solutions, positioning him as a key contributor to AI-driven engineering research and modern computing education in the Philippines.