



DR. CHERRY D CASUAT

Faculty

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Dr. Cherry D. Casuat, DEng-CpE, PCpE, CMAE, is a dynamic academic and researcher whose work lies at the intersection of computer engineering, artificial intelligence, and intelligent systems development. With a strong foundation in Computer Engineering (BS, MEng, and Doctor of Engineering), she exemplifies a technically grounded, yet innovation-driven professional engaged in both academic and applied research environments.

Her career reflects a continuous commitment to higher education and digital transformation, currently serving as a faculty member in the Polytechnic University of the Philippines (PUP) across undergraduate and graduate programs, alongside her role as Learning Management System (LMS) Coordinator supporting institutional teaching and learning initiatives. Her prior engagements across institutions such as TIP Manila, Adamson University, TUP, and Pamantasan ng Cabuyao, where she also held a directorship in Knowledge Management and Innovation, highlight her versatility in both instruction and academic leadership.

At the core of her professional identity is her strong involvement in research and scholarly dissemination. Dr. Casuat has produced an extensive body of work spanning machine learning, computer vision, intelligent systems, IoT applications, and sustainable technologies, including studies on AI-based detection systems, employability prediction models, smart agriculture, renewable energy systems, and security applications. Her publications demonstrate a clear orientation toward real-world problem-solving through data-driven and AI-enabled approaches.

Complementing her research profile is her active participation in the global and national engineering community. She serves as an international reviewer of IEEE conference papers and holds leadership and membership roles in organizations such as the IEEE Philippine Section (Control Systems Society), Mechatronics and Robotics Society of the Philippines (MRSP – NCR President), and the National Research Council of the Philippines (NRCP). These engagements reflect her contributions to advancing professional standards and collaborative research in engineering and technology.

Dr. Casuat is also a committed knowledge advocate and capacity builder, frequently serving as a resource speaker and trainer for government agencies (e.g., DICT), universities, and professional groups. Her training initiatives focus on programming, artificial intelligence, data analytics, and emerging technologies, supporting workforce development and digital literacy.

Overall, Dr. Casuat represents a new generation of AI-enabled engineering educators and researchers, integrating technical expertise, research productivity, and institutional service to advance innovation in education, industry, and community development.

