

## **FLORANTE SANGRENES**

Co-Founder

eMathrix Technologies

### **1. Academic Leadership**

- Robotics developer and Artificial Intelligence and Machine Learning Practitioner; Co-founder of eMathrix technologies.
- Part-time Instructor in Engineering and IT Department, Polytechnic University of the Philippines – Biñan, Laguna.
- Provides instruction in computer engineering, mathematics, and IT-related subjects.
- Engages in curriculum delivery and integration of applied data science and engineering concepts.

### **2. Specialized Expertise**

- Master of Science in Computer Engineering (ongoing), Polytechnic University of the Philippines.
- Master of Financial Engineering, WorldQuant University.
- Applied AI Lab: Deep Learning for Computer Vision, WorldQuant University.
- Applied Data Science Lab, WorldQuant University.
- Bachelor of Secondary Education, Major in History with Specialization in Mathematics, Philippine Normal University.
- Expertise in computer engineering, financial engineering, applied AI, data science, and mathematics education.

### **3. International Representation**

- Presenter in international conferences including ICHESMET (2024) and ICBEIST (2025).
- Awarded multiple recognitions for best research papers and presentations in engineering and technology.
- Recipient of the Philippines' Excellence in Robotics and Artificial Intelligence Leadership Award (2025).

### **4. Research Productivity**

- Published and presented studies on hybrid AGV-drone systems, AI-powered frameworks for smart retail, defect detection in infrastructure, and IP protection for deep learning algorithms.
- Recognized with multiple awards for research excellence in engineering, robotics, and artificial intelligence.
- Research contributions accessible via DOI and ResearchGate.

## **5. Editorial & Peer Review Experience**

- Reviewer and evaluator in international research conferences, particularly in engineering, robotics, and artificial intelligence.
- Serves as panelist and resource person in academic research colloquia and student thesis defenses.
- Provides statistical and methodological consultation for graduate and undergraduate research projects.
- Engages in peer review of technical manuscripts and research outputs, ensuring quality and compliance with academic standards.
- Supports editorial initiatives in professional associations and contributes to strengthening research ethics and evaluation practices.

## **6. Engagement in Policy & Practice**

- Governor, Mechatronics and Robotics Society of the Philippines (MRSP) NCR Chapter, 2025–2026.
- President, DEVCON Laguna, 2025–2026.
- Member of professional associations including ICpEP Singapore Chapter, AAIAP, PCS, PSITE, PSAL, ICIBER, PARSSU, and ABSC.
- Co-host of DWDD 1134kHz AM AFP Radio and host of EduTech Insider YouTube Channel, promoting technology awareness and education.