

Full Name (English):	PROF. DR. FROILAN D. MOBO	<p style="text-align: center;">Recent Photo</p> 
Affiliated Institution and Title (English):	Philippine Merchant Marine Academy	
<p><b>Biography</b> (Please provide in paragraph form within 500 words.)</p>		
<p>Prof. Dr. Froilan D. Mobo is a distinguished academic and researcher, widely recognized for his contributions to the fields of education, educational technology, and public administration. He is currently serving as a Full Professor II at the Philippine Merchant Marine Academy (PMMA), where he has had a remarkable career spanning over 14 years. Starting as an Instructor 1, Dr. Mobo's dedication and excellence in his field led to his swift promotion through the academic ranks, reaching the position of Associate Professor 2 in 2019, and eventually attaining Full Professor II status in 2024.</p> <p>Dr. Mobo's academic background is as diverse as his career. He holds a Doctorate in Public Administration from Urdaneta City University, a Ph.D. in Development Education from Central Luzon State University, and a Master of Arts in Social Studies Education from Bicol University. He is also pursuing an ongoing Master of Science in Computer Science from PRMSU and a Master of Business Administration from Bulacan State University. His educational journey also includes a Diploma in Social Studies Education from UP Open University, a Certificate for Professional Teaching from New Era University, and a BS in Information Technology from Network Computer and Business Colleges.</p> <p>In addition to his academic roles, Dr. Mobo has earned international recognition for his research and scholarly contributions. He is the recipient of two prestigious international awards, one from the International Internship University and another from the Video Tijaswini Foundation. His Google Scholar profile showcases his influence in academic circles, with over 11 publications and 246 citations indexed in Scopus and ACI, highlighting his impact, particularly in educational technology. Dr. Mobo's research interests focus on the integration of technology in education, sustainability, and public administration. His most notable publication, "The Impact of Video Conferencing Platform in All Educational Sectors Amidst the Covid-19 Pandemic," reflects his dedication to studying the evolving dynamics of education through technological advancements. He has also been active in sharing his knowledge through conferences and professional engagements, making him a sought-after speaker in various academic and professional forums.</p> <p>A multifaceted academic, Dr. Mobo is also an alumnus of several esteemed universities, such as UP Open University, Bicol University, and PRMSU, where he continues to hone his expertise while contributing to the academic and professional community. He is known for his passion for teaching, his unwavering commitment to advancing educational practices, and his visionary approach to shaping the future of education through the use of innovative technologies. His achievements continue to inspire educators and researchers worldwide, cementing his reputation as a leader in his field.</p> <p>4o mini</p>		
Speech Title (English):		

## "Advancing AI-Driven Signal and Image Processing for Smart and Sustainable Systems"

### **Abstract:**

The rapid advancements in artificial intelligence (AI) have revolutionized signal and image processing, leading to transformative applications across various domains, including healthcare, security, environmental monitoring, and smart infrastructure. This speech explores the intersection of AI and signal/image processing, emphasizing cutting-edge techniques such as deep learning, generative models, and edge computing for real-time data analysis. It highlights the role of AI in enhancing image recognition, noise reduction, and pattern detection while addressing challenges related to computational efficiency, data privacy, and ethical considerations. Furthermore, the talk delves into the implications of AI-driven signal processing for sustainability, showcasing innovative solutions for energy-efficient systems, disaster response, and intelligent automation. By bridging AI with signal and image processing, this presentation envisions a future where smart and sustainable systems redefine technological progress.