



DR. ANTHONY JAMES C. BAUTISTA

Professor I | Faculty of Engineering
University of Santo Tomas

Prof. Anthony James C. Bautista, PME, ACPE, MBA, PhD is a highly accomplished mechanical engineer, academic leader, and researcher specializing in agricultural robotics, precision farming, and service robot development. He is currently a Professor at the University of Santo Tomas (UST) and an active researcher at the Research Center for Natural and Applied Sciences, where he contributes to advanced engineering research and innovation initiatives.

He has extensive experience in academic leadership and institutional service, having served as Acting Assistant Dean of the Faculty of Engineering and holding multiple roles in quality assurance, international relations, and research management at UST. His teaching expertise spans core mechanical engineering and mechatronics subjects, including thermodynamics, machine design, robotics, engineering economy, and safety engineering, mentoring students in both theoretical and applied engineering domains.

Prof. Bautista holds a Doctor of Technology degree, complemented by graduate studies in MBA (Entrepreneurship) and Mechanical Engineering, reflecting a strong combination of technical expertise and innovation-driven leadership. He is a licensed Professional Mechanical Engineer (PME), ASEAN Chartered Professional Engineer (ACPE), certified safety officer, and a licensed drone (RPA) controller, demonstrating multidisciplinary technical competence across engineering systems and emerging technologies.

Internationally, he has served as a visiting researcher in leading institutions such as the University of Southern Denmark, Washington State University, Toyohashi University of Technology (Japan), and Harper Adams University (UK), contributing to global collaborations in robotics, intelligent systems, and agricultural automation. He has also participated in prestigious leadership and innovation programs, including the Leaders in Innovation Fellowship of the Royal Academy of Engineering and international research immersion initiatives.

A prolific and award-winning researcher, Prof. Bautista has led and implemented numerous funded projects on autonomous navigation systems, UAV-assisted monitoring, assistive service robots, and smart agricultural technologies, supported by agencies such as DOST, CHED, and industry partners. His flagship innovations include the AGROTIS Navigation System for precision rice farming and the LISA Robot for healthcare and logistics applications, both recognized in national and international innovation competitions.

His research productivity is reflected in peer-reviewed publications in IEEE and international conferences, alongside contributions to patents, utility models, and engineering textbooks. He has received numerous recognitions, including QS Reimagine Education Award (2025), Asian Scientist 100 (2022), Gregorio Y. Zara

Award for Applied Research, and multiple innovation and best paper awards, affirming his impact in engineering research and technology development.

Prof. Bautista is actively engaged in professional and scientific organizations, including the Philippine Society of Mechanical Engineers (PSME), National Research Council of the Philippines (NRCP), Mechatronics and Robotics Society of the Philippines (MRSP), and PAASE, contributing to the advancement of engineering practice, research policy, and innovation ecosystems.

Overall, Prof. Bautista is a leading figure in robotics and applied engineering innovation, committed to advancing smart technologies, sustainable agriculture, and service robotics, while fostering research-driven solutions that address real-world challenges in industry, healthcare, and society.