



Assoc. Prof. Bhai Nhuraisha I. Deplomo

University of Makati, Philippines

Bio: Engr. Bhai Nhuraisha I. Deplomo serves as the Founder and CEO of EROVOUTIKA Electronics, Robotics, and Automation. She is also the founder of IRC International Robotics Club and currently holds the position of Chair for the ROBOLUTION: International Robotics and Automation Competition from 2019 to the present. With a professional license in Electronics and Communication Engineering, her expertise lies in the fields of Robotics, Automation, and Information and Communication Technology (ICT).

Engr. Deplomo has made significant contributions to education by developing educational robots and curricula for Robotics and Automation. She is currently in the final stages of completing her Ph.D. in Electronics Engineering. She holds a Master of Science in Electronics Engineering (MSEcE) from Mapua University and a Master of Science in Information and Communication Technology (MSICT) from Pamantasan ng Lungsod ng Maynila, Philippines. Furthermore, she has acquired academic credits in Doctor of Technology at TUP, Manila, and currently serves as an Associate Professor at the University of Makati, Philippines.

Speech Title: Cybersecurity in Robotics and Automation

Speech Abstract:

With the rapid adoption of robotics and automation in various industries, there is a growing need to address the critical aspect of cybersecurity. As robots become integral components of smart factories, autonomous vehicles, healthcare systems, and even our daily lives, they are increasingly connected to networks and the internet. This connectivity brings both tremendous advantages and significant security challenges. This abstract provides an overview of the emerging field of cybersecurity in robotics and automation, outlining the key challenges, strategies, and considerations for ensuring the safety, resilience, and integrity of these systems. The integration of cybersecurity measures into robotics and automation is essential to safeguard against a range of threats, from data breaches to physical harm. The integration of cybersecurity in robotics and automation is crucial for ensuring the safe and reliable operation of these systems. This highlights the need for organizations to take a proactive approach in addressing security challenges and adopting a cybersecurity mindset to protect their robotics investments and the broader automation ecosystem. Organizations must invest in vulnerability testing to identify and remediate security weaknesses in their robotic systems. Continuous research and innovation are necessary to stay ahead of emerging cyber threats and develop proactive security solutions.