

JosephPark@IEEE.org
JosephPark@SoftwareLiteracyFoundation.org

Dr. Joseph Park has a broad spectrum of research, operational, managerial, communication, and pedagogical experience in engineering and science. He currently serves as a research scientist at the Scripps Institution of Oceanography and Okinawa Institute of Science and Technology. Previously, he was the Chief of Engineering & Development at the United Nations Comprehensive Nuclear-Test-Ban Treaty Organization (CTBTO).

Dr. Park was the founder and President of Zenith Engineering Inc., providing structural engineering, systems engineering, analytic, and software consulting from 1998 through 2007. Dr. Park developed software for the U.S. Navy, Fortune 500 companies, and, designed, engineered, supervised, and inspected the construction of over 60 commercial and residential construction projects in South Florida.

At the U.S. Department of Interior South Florida Natural Resources Center (SFNRC) Dr. Park conducted research informing Everglades Restoration through the Department of Interior (DOI) Critical Ecosystem Studies Initiative (CESI). At NOAA he directed the Engineering Development Lab at the Center for Operational Oceanographic Products and Services supporting the official tidal and current sensor network of the United States. As a senior scientist with the National Center for Physical Acoustics and University of Hawaii he conducted geophysical and sensor research, and designed, directed and installed an underwater multi-sensor oceanographic observatory. With the South Florida Water Management District he was a principal engineer and core developer of the Regional Simulation Model (RSM).

As an Assistant Professor at the ABET-accredited Department of Ocean Engineering at Florida Atlantic University he developed and instructed courses in physics, electronics, acoustics and data analysis, and conducted oceanographic and control systems research with autonomous underwater vehicles.

With the U.S. Naval Undersea Warfare Center (NUWC) he was an electrical & ocean engineer focusing on development and analysis of submarine tracking, communication, and weapon systems at the U.S. Navy's largest underwater tracking range and sensor network. As an ocean and mechanical engineer at the Naval Sea Systems Command (NAVSEA) he designed, inspected, and tested Navy Deep Dive System components onboard the ASR 21, ASR 22 and IX 501, and designed hydraulic systems for Los Angeles and Ohio class submarines.

Dr. Park is committed to finding solutions to the growing digital divide, and welcomes opportunities to further his goal of inspiring and educating youth to pursue career and educational choices in STEM.

Professional Associations

Florida Registered Professional Engineer #42687
Institute of Electrical and Electronic Engineers (IEEE)
Oceanic Engineering Society (OES)
American Institute of Physics (AIP)
American Geophysical Union (AGU)
European Geosciences Union (EGU)
Tau Beta Pi (Engineering Honor Society)

Journal Referee

Nature Communications, IEEE Access
Journal of the Acoustical Society of America
AMS Journal Atmospheric & Oceanic Technology
AGU Water Resources Research, Journal of Climate
ASCE Journal Hydrologic Engineering
EGU Ocean Science, Journal of Coastal Research
Frontiers in Marine Science

Education

Bachelor of Science Ocean Engineering [Acoustics]
Master of Science Ocean Engineering [Acoustics]
Doctor of Philosophy Electrical Engineering [Physics]