

Joseph C. Park, PhD, PE

Joseph_Park@nps.gov
JosephPark@ieee.org
JosephPark@SoftwareLiteracyFoundation.org

Dr. Joseph Park has a broad spectrum of operational, communication, pedagogical, and research experience in engineering and science. He currently serves as a physical and information scientist at the Department of Interior South Florida Natural Resources Center (SFNRC), and director of the Software Literacy Foundation, a tax-exempt public charity who's mission is to educate and inspire youth to pursue a career in software development.

Dr. Park was the founder and President of Zenith Engineering Inc., a Florida corporation providing structural engineering and software development consulting to Fortune 500 companies from 1998 through 2007. Dr. Park designed, supervised, and inspected structural buildings for over 60 commercial and residential construction projects in South Florida.

As a scientist and engineer at the SFNRC, Dr. Park solves problems in oceanography, hydrology, and ecology to inform Everglades restoration. At NOAA he directed the Engineering Development Lab at the Center for Operational Oceanographic Products and Services and conducted research on tidal measurement technology, coastal sea levels, extremes, and probabilistic decision-support tools. As a senior scientist with the National Center for Physical Acoustics, he performed research tracking and characterizing tornadoes with remotely sensed infrasound. At the University of Hawaii he designed, directed and installed an underwater multi-sensor oceanographic observatory and conducted research in oceanography and acoustics for the United Nations Comprehensive Nuclear Test-Ban Treaty Organization. At the South Florida Water Management District he was a principal engineer, hydrologist, and core developer of the Regional Simulation Model (RSM). As an Assistant Professor at the Florida Atlantic University Department of Ocean Engineering he 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. 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

AMS Journal Atmospheric & Oceanic Technology
Journal of the Acoustical Society of America
ASCE Journal Hydrologic Engineering
IEEE Access; EGU Ocean Science
AGU Water Resources Research
Journal of Coastal Research
Journal of Climate

Education

Bachelor of Science Ocean Engineering [Acoustics] (1985, FAU)
Master of Science Ocean Engineering [Acoustics] (1989, FAU)
Doctor of Philosophy Electrical Engineering [Physics] (1994, FAU)