



Anthony Venezia

Engineering Staff

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Current Project

WETS Demonstration Prototype – Dockside IoT Buoy System

- Dockside buoy prototype demonstrating WETS-based sensing
- RAK7248 LoRaWAN gateway transmitting IMU motion data
- Onboard processing for motion detection and alert generation
- Dual-path comms: LoRaWAN (alerts) + WiFi (high-speed display)
- Real-time visualization integrated with OSDC website

Education

Florida Atlantic University — BS Ocean Engineering (2004)

Graduate Coursework — Ocean Engineering (2004-

Professional Summary

Hands-on ocean engineering technician supporting marine sensing systems, buoy platforms, and Navy-relevant technologies. Active OSDC contributor with experience in IoT integration, field deployment, and real-time environmental data systems.

Core Capabilities

Ocean sensing • IoT systems • LoRa networks • Raspberry Pi • MQTT/Node-RED/Grafana • Field deployment • Sensor integration

Professional Experience

Ocean Systems Development Corporation (OSDC) — Engineering Technician

1991–1999, 2024–Present

- Buoy design, fabrication, and deployment
- WETS system support and development
- Sensor integration and IoT systems (Raspberry Pi, MQTT)
- LoRa communications and data systems