



Acquisition Directorate

Research, Development, and Innovation

Autonomous Vessel Tracker

DHS Small Business Innovation Research (SBIR)
Other Agency Technology Solutions (OATS)

DR. DAVID WIESENHAHN, CG-926

13 JUNE 2025

Autonomous Vessel Tracker

- Project developed under DHS SBIR OATS, 2022-2024
- Project overview
 - Develop sensor to monitor inlet, port, or waterway
 - Create log of transiting vessels, including date, time, direction, speed, and registration number
 - Capabilities based on feedback from sponsor, Sector San Diego
 - Sensor was EOIR based, with radar to provide cueing
 - COTS hardware, algorithms based on previously developed libraries
 - Technical challenges: 1) Integration into end-to-end system that operates in real time; 2) Realistic operating environment
- Desired outcome
 - Product commercialization
 - Demonstrate capability that can be tailored to specific needs
 - Inform requirements
 - Provide testbed for future efforts



System Demonstration – August 2024

