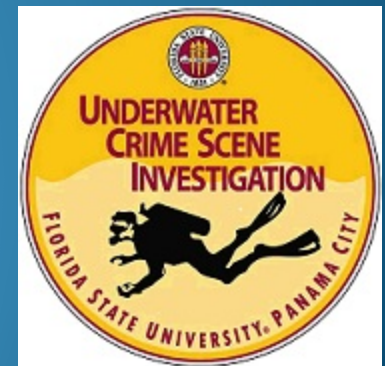


# Fast Track for ROV Flight Proficiency

Jason Hole  
Florida State University  
Panama City



# Background

- 4 years operating ROV's
- 2 Years assisting in instructing
- Used multiple ROV's for different functions
- Fish counts, inspections, locating of objects, instructing different individuals, and helping design curriculum



# Florida State University

- Effective training course focusing on flight
- Time in the classroom is focused on the mechanics of flight
- Three main components which have been developed
  - Characteristics and skills
  - Applications and Scenarios
  - What works and Doesn't work



# Characteristics and Skills

- Patience is a Virtue
  - Becoming proficient in ROV flight takes time
  - Must be able to patiently work through problems
- Interest in Flight
  - What are the interests of potential pilots?
  - Missions relevant to interest
- Skills
  - General Flight
  - Understanding general mechanics



# Common Applications

- Inspections
  - Discover what is wrong or what is missing
- Search and Recovery
  - Locate and Potentially recover items
- Data Gathering
  - Deploy Sensors
  - Make Observations



# Training

- Flying ROV in shallow water for first time flying
- Fly ROV in pool to simulate still water environments
- Deploy from boats and docks to simulate different environments
- Train with different equipment such as BlueView Sonar to assist in different environments such as dark or murky water





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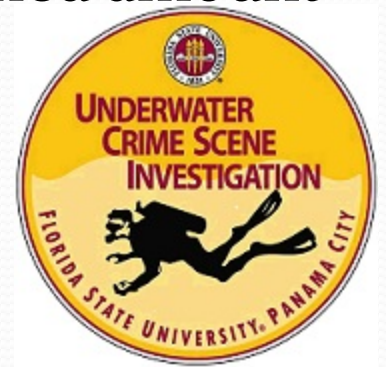






# Scenarios

- Pylon Inspections
  - Deploy ROV to inspect pylons. Using search patterns and general flight
- Weapon/Body Recovery
  - Search murky water for weapon or body. Using search patterns and general flight to locate and recover
- Fish Count
  - Deploy ROV on wreck or reef for predetermined amount of time to observe fish species



# What Works/ Does Not Work

- DOES- Focus on mechanics of flight; as much stick time as possible; as many different environments as possible; adequate scenario time.
- DOES NOT- Pushing through material; minimal time for different skills; concentration focused on the system and not the flight.



# Special Thanks

- Video Ray LLC
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- Rachel Miller
- Blue View Sonar

