## Boeing Hackathon

**Marking Criteria:**

Quality

Completeness

Innovation

**Categories:**

Exploration

Environment

Communication

**Ideas:**

Shark Detection – Communication

**Iceberg Sonar Detection – Communication**

Diving App to plan dives (Oxygen to Nitrogen Ratio, Weight, Height, Depth, Route, Hazards. Would require scanning of common diving routes. To prolong diving and keep people safer underwater) - Exploration

Oil Leak Spread to track damage - Environment

Water sports that track Coral health – Environment/Communication

**General Structure:**

Demo to show software

* Data Generation
  + Generate Ships
  + Generate Icebergs to be detected
* Video Simulation
  + Input Destination and Location
  + Detect Icebergs
  + Communicate with other ships
  + Add Icebergs to Map
  + Calculate Route