Daryn Cook

Personal

- Hometown: Indian Harbour Beach, FL.
- ~30 minutes south of Cape Canaveral, where a majority of American space operations are launched and now the largest American cruise port
- Plan on working at NSWC Carderock

Professional

- Completed shipyard experience at Gulf Island Shipyard in Houma, LA
- Engineering office work
- Metal Shark Boats Croatia (Rijeka, Croatia)
- Stolt Tankers (Rotterdam, The Netherlands)

Chris Grieves

Personal

- Hometown: Metamora, Illinois
- SCUBA Certified
- Interested in Sustainability
- Career Plans: Naval Architect

Professional

- First Mate aboard the Spirit of Peoria Riverboat
- Shipyard Experience at Colonna's Shipyard
- Engine Cadet on M/V *Stolt Sneland*
- Naval Architect Intern at Metal Shark Croatia

Joseph Laplaca

Personal

- Hometown: Island Heights, New Jersey
- Interests: Sailing, Surfing, Flying
- Career Plans: Construction Management

Professional

- Shipyard Experience: St. John's Shipbuilding
- Sea Term: Stolt Tankers (Stolt Creativity)
- Office Internships:
  - Philly Shipyard
  - Marine Design and Operations

Abner Mills

Personal

- Hometown: Vestal, New York
- FRC Robotics Team President
- Eagle Scout, 2018
- Sailing since 15 Years Old
- Won Class in Newport to Bermuda Race
- Career: Marine/Propulsion Engineer

Professional

- Completed shipyard experience at General Dynamics NASSCO
- Sea Term aboard M/V Stolt Confidence
- Worked at Snow & Company For Junior Winter Work

Miguel Sanchez

Personal

- Hometown: Pacifica, CA
- I enjoy SCUBA diving and am a certified Divemaster
- Career Plans: Naval Architect or Taco Truck Owner

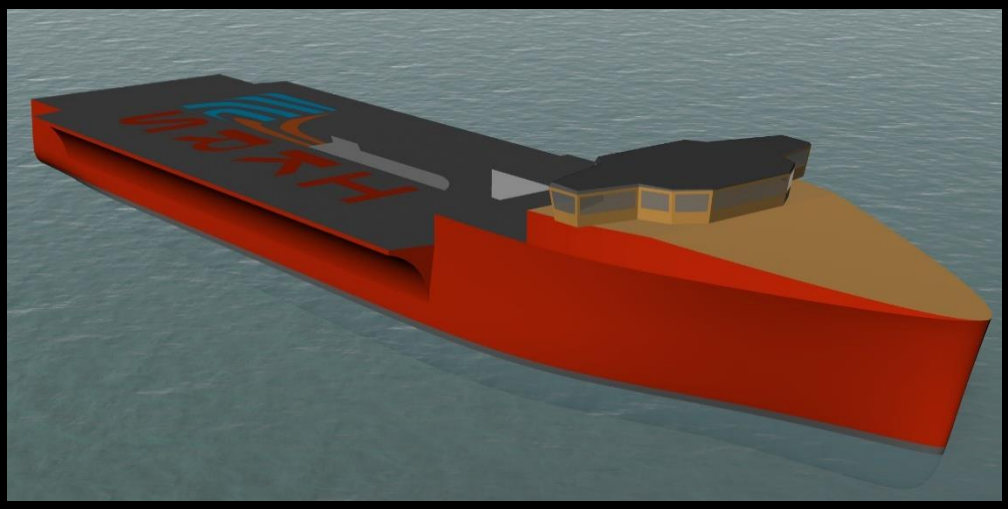
Professional

- Worked at General Dynamics NASSCO for my shipyard term
- Spent sophomore sea term aboard RV Sikuliaq
- Sailed from Seward, AK to Portland, OR, and Newport, OR
- Worked at the Global Foundation for Ocean Engineering for Junior winter work

It's Knot Rocket Science

Rocket Recovery/ Landing Vessel

Vessel Description



It's Knot Rocket Science is a Lloyd's Register classed Rocket Recovery and Landing Vessel. Operating in the region surrounding the Bahamas, the vessel's primary purpose is to recover capsules and land rockets on the 3000 m^2 landing pad located on the aft end of the vessel. The diesel electric propulsion system is supported by sufficient battery capacity to allow for the vessel to operate in a zero-carbon emissions mode for 10% of the vessel's operational profile. To ensure the vessel's capability to perform its duties to the highest extent, the vessel is designed to meet DP3 standards.

Main Characteristics

LOA:	150m
LWL:	146m
Beam Overall:	42m
Beam Waterline:	32m
Design Draft:	5m
Deck Depth:	14m
Weight Displacement:	16000MT
Volumetric Displacement:	15650m^3
Block Coefficient:	0.669
Prismatic Coefficient:	0.707
Design Speed:	15kts
Range:	1600nm
Accommodations:	
Officers	10 Persons
Crew	10 Persons
Technologists	40 Persons

Mission Specific Specifications

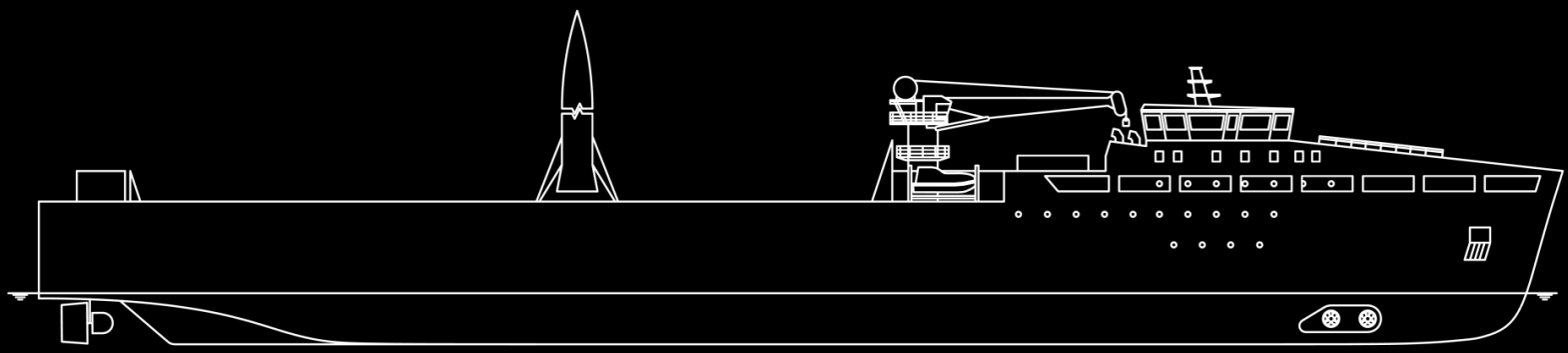
- Deck area of 3000m^2 for rocket landings
- Main deck support of 4000 MT/m^2
- Main deck exhibits A60 Structural Fire Protection
- 10m outreach deck crane, capable of supporting 50MT
- Crew transfer capability for rocket landings
- Securing robot for rocket
- Two 7m RHIB tenders
- Storage facilities
  - Fresh water washdown: 200m^3
  - Industrial Solvents: 5500 liters
  - Compressed inert gasses: 6000m^3

IKRS

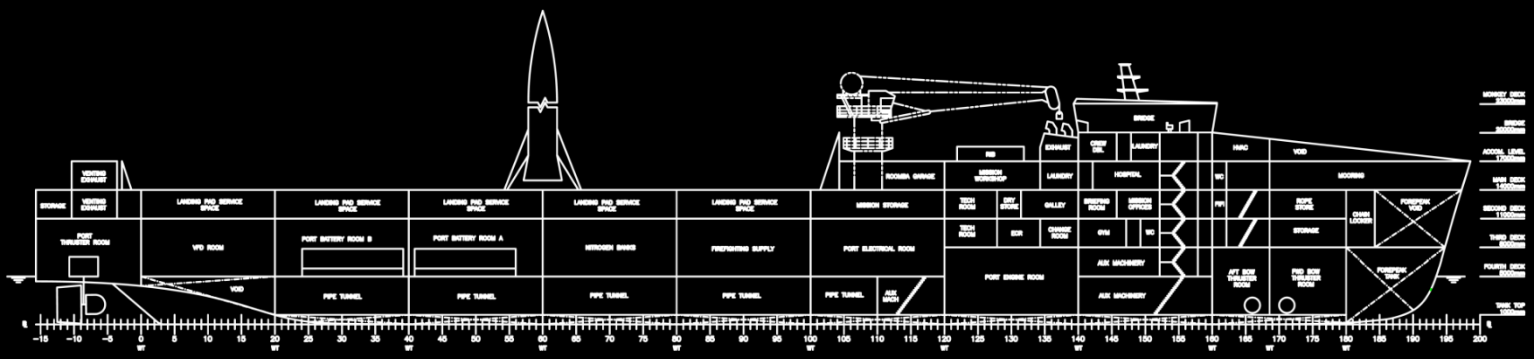
It's Knot Rocket Science

Rocket Recovery/ Landing Vessel

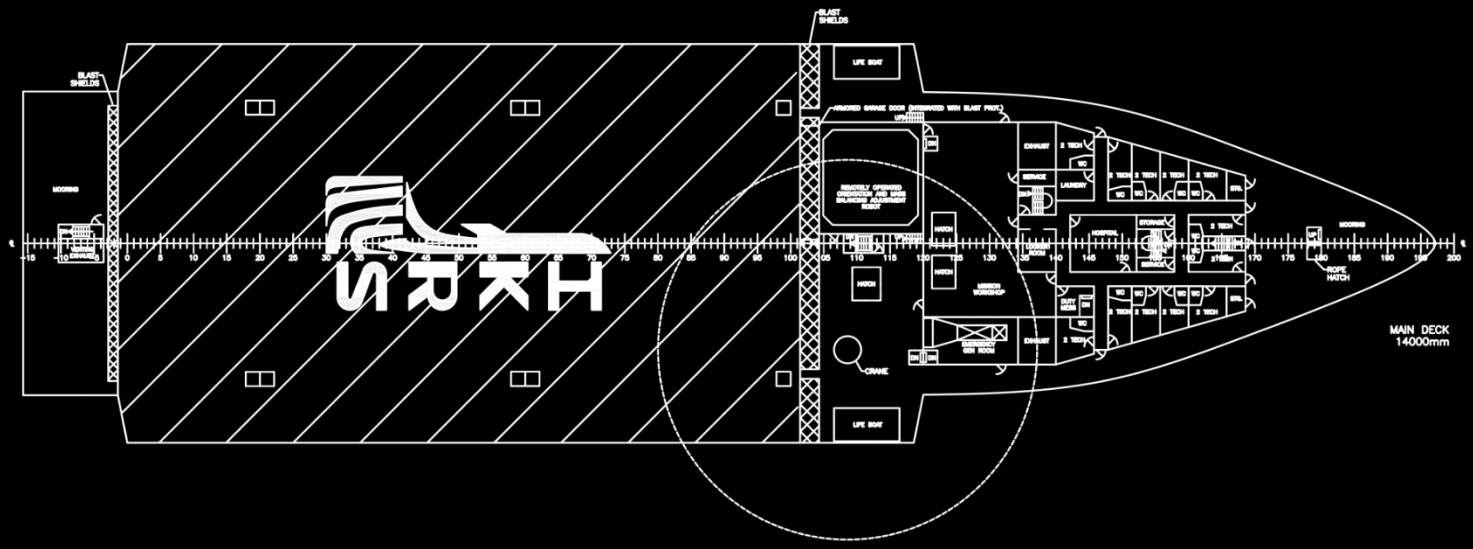
Daryn Cook, Chris Grieves, Joseph LaPlaca, Abner Mills, Miguel Sanchez



Outboard Profile



Inboard Profile



Main Deck

It's Knot Rocket Science

Rocket Recovery/ Landing Vessel

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