

ETHAN SCULLY

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SUMMARY

Former submarine officer consistently ranked in the top 5% of my peer group. Experienced supervisor of maintenance, operations, and training in a marine environment. Life-long learner with technical aptitude and a passion for helping others overcome obstacles. Currently working as a system design engineer on Holtec's SMR-160.

SKILLS

- Project Management - comfortable coordinating efforts and resolving conflicts between multiple stakeholder entities and subject matter experts to accomplish large technical projects with time pressure
- Leadership - over 5,000 hours standing supervisory shifts on a nuclear submarine leading teams of 10-30 to accomplish fast-paced operations, conduct maintenance, and respond to casualties
- Incident investigation - problem identification, root cause analysis, and corrective action development and implementation
- Training - ability to inculcate new personnel with organizational fundamentals or deep dive with seasoned professionals into more advanced topics
- Safety - extensive experience with Lockout Tagout, electrical safety, fall safety, diving safety, enclosed spaces safety, and working with large rotating machinery

PROFESSIONAL EXPERIENCE

Holtec International System Design Engineer

**Camden, NJ
January 2021-Present**

- Provide operational experience to system engineers working on the Reactor Coolant System to inform design decisions
- Use familiarity with integrated plant operation to develop the SMR-160 startup procedure and associated startup systems
- Responsible for SMR-160 Main Steam System

United States Navy Submarine School Instructor

**Groton, CT
January 2020 – December 2021**

- Managed 6 peer-level instructors to deliver training and maintain and update technical curriculum for submarine officers as Combat Operations Office Lead
- Train Department Heads to safely drive submarines at sea using SONAR and employ tomahawk weapon system as a SONAR and Strike subject matter expert
- Coordinated efforts of 30 instructors, multiple off-site entities, and multi-million dollar training simulators to ensure on-time graduation of 120 submarine department heads in the face of strict Navy COVID measures in 2020 as Submarine Officer Advanced Course Training Pipeline Manager
- Planned and executed numerous social events with a limited budget and in accordance with military and state COVID restrictions as Wardroom Social Coordinator

Maintenance and Operations Supervisor- USS North Dakota SSN-784 **February 2017 – December 2019**

Groton, CT

- Responsible for preventative and corrective maintenance, operations, personnel administration, casualty response, and training of SONAR, Mechanical, Auxiliary, Fire Control, and Torpedo divisions consisting of 5-20 technicians each

- Experience with nuclear fluid systems, steam generators, propulsion steam turbines, turbine generators, reduction gears, reverse osmosis, hydraulics, diesel engines, high pressure air compressors, atmosphere control, fire suppression, plumbing, ballast, heat exchangers, and weapons systems
- Qualified Engineer on S9G nuclear plant with recognition for superior performance by Naval Reactors
- Qualified to drive \$2 billion Virginia class submarine and supervise operation of 150 man crew
- Watch/Duty officer responsible for supervising day-to-day operations and maintenance
- Prioritized and executed multiple duties and responsibilities simultaneously

Charleston, SC

Submarine Training Pipeline

May 2015 – January 2017

- Supervised 10 person teams on the S5W land-based pressurized water reactor
- Completed graduate-level coursework on pressurized water reactor operations, heat transfer, thermodynamics, reactor dynamics, and electrical engineering

EDUCATION AND CERTIFICATION

United States Naval Academy

Annapolis, MD

Bachelor of Science (BS), Mechanical Engineering, 3.94

2011-2015

- Minor in Arabic
- Coursework in Solar Engineering and Energy Distribution
- Heavyweight Crew varsity letter winner
- Senior design project adopted for use by NAVAIR Patuxent River material testing program

Fundamentals of Engineering

2015

Mechanical licensing exam (NCEES ID: 15-725-96)

Project Management Institute PMP certification

Anticipated completion date May 2022

Syracuse University – O2O program

AWARDS

- Recognized as Instructor of the Class - Submarine Officer Advanced Class 21020 – Ranked 1 of 30
- Honor Graduate of Naval Diving and Salvage Training Center SCUBA class 18-20 – Ranked 1 of 20
- Tactical Excellence Award Submarine Officer Basic Course – Ranked 1 of 90
- Honor Graduate Naval Nuclear Power School – Ranked 3 of 84
- Navy Achievement Medal – For performance during Operational Reactor Safeguards Exam - 2017
- Navy Achievement Medal – For performance during USS North Dakota’s maiden deployment - 2018
- Navy Achievement Medal – For performance as Assistant Weapons Officer - 2019
- Navy Commendation Medal – For performance as NAVSUBSCOL Combat Operations Office Lead - 2021

ADDITIONAL

I am passionate about the environment. I volunteer with the Avalonia Land Conservancy, participate in community supported agriculture, maintain a 500 square foot garden at my own house, and bike commute year round in New England, 12 miles a day. I believe in community involvement. I participate in the New London Community Orchestra as a violinist, and mentor a coast guard academy cadet as a part of their sponsor program. I am intensely competitive and love to push myself physically. I walked-on to the Naval Academy’s heavyweight rowing program in the summer of 2011 with no experience and 3 years later I was one of 24 college rowers in the country invited to the selection camp for the under 23 team that represents America in international competition.