

Julian O'Leary

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TECHNICAL SKILLS: Nuclear Submarine Officer with operational experience in the Indo-Pacific region leading engineering and tactical teams in various undersea missions. Strong background in Electronic Warfare (EW), Signals Intelligence (SIGINT), military communications, C2 networks, ship control systems, and naval weapons systems. Experience with Git, Bash, MATLAB, and Python libraries (SciPy, NumPy, PyTorch, Pandas).

PROFESSIONAL EXPERIENCE

Navy Nuclear Power Training Unit

Chemistry and Radiological Controls Officer

Charleston, SC

Sep 2023 - Present

- Trained over 1000 Sailors and Naval Officers annually in radiological controls and operations. Directly responsible for the radiological management and water chemistry of a land-based Naval Nuclear Reactor.
- Led a team of 30 specialized Sailors and managed the continuous improvement program, driving process improvements while ensuring regulatory compliance under the Department of Energy and Naval Reactors.
- Coordinated radiological initiatives with multiple stakeholders across the Naval Nuclear Propulsion program.
- As a submarine-served Officer, certified the engineering knowledge and technical performance of Naval Officers and Contractor personnel through oral examinations and evaluation periods in the nuclear plant.
- Provided professional mentorship and coaching to future Nuclear Submarine Officers and Sailors.

Nuclear Submarine Officer

Pearl Harbor, HI

Main Propulsion Assistant / Information Warfare Officer / Ship's Diving Officer

Dec 2020 - Sep 2023

- Led a team of communications specialists during a challenging, undersea deployment to the APAC region.
- Developed and tested new methods of SIGINT analysis by deploying improved software to a submarine system.
- Trained and certified a team of EW specialists on the operation of mission-specific communication and electronic support equipment. Provided critical oversight as a Communication Security (COMSEC) Account Manager, responsible for the secure operation of submarine communication equipment throughout various environments.
- Planned and executed complex and varied submarine missions while deployed to the Indo-Pacific region.
- As Engineering Officer of the Watch, led a 10 person team of nuclear operators through an Eastern Pacific deployment and Operational Reactor Safeguards Examination: a rigorous week-long Engineering Evaluation.
- As an Engineering Department Division Officer, led the Machinery Division through operational and maintenance periods that included at-sea and in-port testing. Managed multiple maintenance and quality assurance programs.
- Completed Prospective Nuclear Engineering Officer School, certifying eligibility for Submarine Department Head.

EDUCATION

Nuclear Power School / Navy Nuclear Power Training Unit

Charleston, SC

Aug 2020

- Completed a rigorous six-month course on the design and operation of a submarine nuclear reactor plant followed by six months of practical training and evaluation in a nuclear submarine engine room.
- Graduated the program five weeks early and was selected to return as an instructor in 2023.

University of Washington

Seattle, WA

Applied Physics

Jun 2019

- Explored low-cost alternatives to cosmic veto detectors in support of the [Majorana Experiment](#).
- Conducted atmospheric monitoring of radionuclides with [CENPA Lab](#) and [UC Berkeley](#).
- Coordinated training events as Naval Reserve Officer Training Corps Battalion Operations Officer.

ADDITIONAL SKILLS / CERTIFICATIONS

- Security Clearance: Active TS/SCI**
- Certifications:** COMSEC Account Manager, Nuclear Engineer Officer, FAA Private Pilot
- Dual US/EU Citizen,** Working Proficiency in French
- Submarine Systems:** AN/BLQ-10, Common Submarine Radio Room, Integrated Broadcast Service, AEHF