

Brian D. Markham

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EXPERIENCE

Shipyard Liaison Engineer & Nuclear Safety Expert

Naval Nuclear Laboratory

August 2016 - May 2022

- Responsible for working with remote shipyards, vendors, and customers to ensure completion of Key Performance Indicators (KPIs) and milestones in defueling multiple nuclear submarine cores each year.
- Developed and facilitated training and mentorship for shipyard and laboratory personnel on reactor operations and nuclear safety providing a more competent and well-trained workforce.
- Led cross-functional teams on LEAN and Six Sigma initiatives to streamline processes and procedures locally and at the shipyards to save man-years of effort and training each year.
- Facilitated designing a new generation of VR training platforms that would save the program millions of dollars each year and reduce the amount of potential radiation exposure as Product Owner and Technical Expert in a SCRUM group.
- Authored, edited, contributed, and published numerous technical, safety, and equipment manuals providing a safer and more efficient process for the shipyards.

Nuclear Submarine Officer

United States Navy

March 2011 - April 2016

- Qualified as Engineering Officer of the Watch and Engineering Duty Officer, in charge of reactor operations.
- Worked with and performed maintenance on various types of instrumentation connected with the operations of a submarine.
- Managed Electrical Division (Nuclear) and LAN Division concurrently as the front-line manager.
- As Safety Officer on board, performed inspections and audits to take our ship from the least safe submarine to the safest ship in the Pacific Fleet.
- Audited, managed, and supervised maintenance throughout the engineering department ensuring safe completion of all required maintenance.
- Facilitated training, mentorship, coaching, and onboarding to help ensure full staffing potential.

EDUCATION

Bachelor of Science, Mechanical Engineering

- University of Portland, Portland Oregon
- ABET Accredited Program

Naval Nuclear Power Program - Officer Graduate

- Year-long training that culminated in graduates fully capable of operating/supervising a nuclear reactor on a US warship
- Training included classroom and hands-on experience with an operating reactor
- Operational experience consisted of normal, abnormal, and emergency operations
- As an officer (supervisor) qualifications comprised of evaluations in every watch station and officer-only material

PROJECTS/ACHIEVEMENTS/CERTIFICATES

Nuclear Safety Manuals

- Developed a new standard for Nuclear Safety Manuals according to newly published regulations
- Wrote six new manuals for the Naval Nuclear Power Program ensuring safe operations and adherence to new regulations
- Established as Nuclear Safety Expert, providing insight and technical expertise on numerous projects

Project Manager

- Certifications and experience in Project Management, LEAN Green Belt, and Six Sigma Black Belt

SKILLS/LANGUAGES

Fields of Interest: Nuclear Safety, Operations, Project Management, Training Development and Delivery, Research and Development

Technical Skills: Technical Author, Nuclear Plant Operations and Decommissioning, Contamination/High Radiation Worker, Part Design and Analysis, 3D Modeling, Python

Languages: English - Native, Finnish - Conversational, Spanish - Elementary