



Steven Blomgren

Summary Of Qualifications

Nuclear engineering / technologist with experience in thermal hydraulic code development, simulation development, controls engineering, field service engineering in a customer environment, and a former electronics technician with over four years of professional experience as a Naval Nuclear Reactor Operator seeking growth opportunity in the engineering industry. Well trained, excellent supervisor that is highly organized with meticulous attention to detail.

Highlights Of Technical Qualifications

NuScale Power, LLC

- Performed as a code custodian for NuScale Reactor Excursion and Leak Analysis Program, the main systems code for thermal hydraulic analysis
- Developed an output processing code for the NuScale Integral System Test facility data
- Helped to develop the NuScale Power Simulator
- Helped to perform the NUREG 0800, Chapter 7 gap analysis
- Served as a subject matter expert for internal and external NQA-1 software quality assurance audits

GE Energy

- Completed Six Sigma Green Belt training
- Completed Audit Training course and performed audits of individual workstations to ensure compliance with the ISO-9001 quality procedures
- Completed MK Vie Training
 - Learned to program and configure the MK Vie to monitor and manipulate field devices through a Human Machine Interface designed with Human Factors Engineering to optimize the efficiency for the operator
 - Learned to troubleshoot the controller hardware and software
 - Learned to configure operator screens using Cimplicity
- Utilized 3Key Master for logic and macro creation
- Utilized DOORS for writing specific testable requirements in relation to Primitive and Macro operation

Nikon Precision

- Completed multiple courses on Nikon's photo-lithography scanner
- Learned to work safely with lasers and precise machinery
- Learned to troubleshoot and repair the scanner

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- Learned to optimize the scanner lens and moving parts to improve throughput and accuracy

US Navy

- Qualified Shutdown Reactor Operator and Reactor Operator
 - Required to monitor plant conditions to guarantee reactor protection
 - Intricate knowledge of power plant interrelations
 - Trained to respond to complex reactor plant casualties
 - Controls all maintenance which effect reactor protection systems
 - Aware of all maintenance in engine room to ensure plant safety
- Qualified Shutdown Electrical Operator and Electrical Operator
 - Required to monitor electric plant conditions and ensure continuity of power
 - Trained to respond to complex electric plant casualties
 - Responsible for all communications throughout engine room
 - Detailed knowledge of turbine generators, motor generators, battery, switchboards/breakers, controllers, and operating loads
- Qualified Basic Engineering
 - In depth knowledge of all reactor plant systems, steam plant systems, electric plant systems, and chemistry requirements for both primary and secondary systems
 - Extensive theoretical knowledge of reactor physics, primary plant systems, secondary plant systems, heat transfer fluid flow and their interrelations
- Qualified Radiation Worker and Control Point Watch
 - Capable of working in radiation, high radiation, and controlled surface contamination areas
 - Monitor and control access in these areas

Work Experience

NuScale Power, LLC	Thermal Hydraulic Software Developer	02/09 - Present
GE Energy	Nuclear Engineering / Technologist	12/07 - 02/09
Nikon Precision	Field Service Engineer	06/06 - 12/07
United States Navy	Electronics Technician (Nuclear)	05/00 - 05/06

Summary Of Experience

Supervisor

- Exhibited strong technical leadership as a reactor operator in the Navy, directed the demolition process for photolithography scanners and assisted in controlling several requisitions for GE Energy
- Trained and mentored personnel new to the department
- Wrote evaluations of training for regular review
- Tracked and recorded progress of individuals for qualifications, schools, maintenance capabilities, and level of knowledge
- Provided motivational feedback to junior personnel

Organized

- Wrote several macro test cases, conforming to requirements, that were thorough and concise
- Assisted in the development of many useful documents for the purpose of improving precision and effectiveness
- Impeccably recorded training for the engineering department in the submission to the Chief of US

Naval Nuclear Operations

- Expertly managed the training program, enhancing overall level of knowledge
- Impeccably controlled calibrated equipment

Attention To Detail

- Reviewed and critiqued requirements, test cases, and help files for clear language and proper operation
- Skillfully repaired and maintained a large variety of equipment
- Responded to complex casualty training scenarios as Reactor Operator during three Operational Reactor Safeguards Examinations
- Enhanced safety in the shipyard environment as a member of the Work Control Center

Education And Training

Oregon State University, MEng Mechanical Engineering	(Fall 2023)
Oregon State University, B.S. Electrical & Computer Engineering	Fall 2021
Thomas Edison State College, Nuclear Engineering Technologies	09/07
Marine Electronic Systems, Two Year Certificate	08/05
Front Line Leadership	08/05
Submarine Advanced Fire Fighting	12/04
Submarine Basic Fire Fighting	12/04
Electronics Technician Maintenance School	08/04
Shipboard/Work Center Instructor Indoctrination	10/03
Basic Electronics Test Equipment	02/03
Nuclear Propulsion Plant Operator	02/02
Naval Nuclear Power School, Enlisted	08/01
Nuclear Electronics Technician, Class A	02/01
Recruit Training	07/00
Fresno City College	03/00

Honors & Awards

*Navy and Marine Corps Achievement Medal	*Commander Submarine Group 9 Letter, Rear Admiral M.G. William, JR
Good Conduct Medal	*National Service Medal
Global War on Terrorism Service Medal	*The Arnold Fletcher Award: For Exceptional Achievement in Independent Learning