

Carl Markert

Results-driven contributor with over 35 years of experience in engineering, operations, maintenance, and training at industrial facilities.

Experience

2018 – present Graduate Student, Industrial and Systems Engineering, Texas A&M University

- PhD student currently researching telehealth to support successful aging.
- Research interests are focused on ways to enable the elderly to live at home safely, independently and comfortably and is concentrated on understanding the effectiveness of remote patient monitoring techniques in the context of enabling the elderly to age in place.

2012 – 2017 NuScale Power, LLC *Vice President, Operations and Engineering*

- Led the Engineering and Operations Departments at NuScale Power in the completion of the reference plant design for a small modular reactor ensuring compliance of the design with all applicable safety and licensing requirements.
- Implemented a robust Human Factors Engineering (HFE) program at NuScale Power and oversaw development of a fully functional multi-unit control room simulator. The HFE program was well received by the NRC resulting in the acceptance by the NRC of a significant reduction in the required number of control room operators – a major cost savings for small modular reactors.
- Key contributor to the successful completion of the Design Certification Application that was docketed for review by the NRC in March 2017.
- Shared responsibility for overall company performance as a member of the NuScale's Executive Leadership Team.

2006 – 2012 URENCO USA *Operations Manager; Engineering Manager*

- Managed plant operations to ensure the safe and efficient production of enriched uranium. Worked collaboratively with the other site organizations to ensure the successful construction, turnover, commissioning and startup of all plant systems and components. Responsible for the development and implementation of the operations training program.
- Managed plant engineering processes, programs and functions to ensure the facility's configuration and design were maintained in accordance with the safety and design basis.

2000 – 2006 Cooper Nuclear Station *Maintenance Manager; Engineering Manager Senior Reactor Operator*

- Managed the maintenance department responsible for corrective, preventive and predictive maintenance activities on all mechanical, electrical, instrumentation and control systems. Oversaw the maintenance technical training programs as the line manager owner.

- Managed the engineering support department responsible for equipment reliability and regulatory programs. Oversaw the engineering training program as the line manager owner.
- Qualified Senior Reactor Operator (SRO) certified to stand watch in the control room as a licensed SRO directing the activities of the operating crew and other personnel during normal operations, plant transients, and/or accidents.

1992 – 2000 Consultant to the Nuclear Industry

- Provided engineering and management consulting services to the commercial nuclear industry and Department of Energy facilities.

1981 – 1992 United States Navy, *Nuclear Submarine Officer*

- Engineering Officer aboard USS Henry M. Jackson (SSBN 730). Responsible for managing the Engineering Department and associated training and qualification programs.
- ROTC Company Officer and Professor of Naval Science at Texas A&M University. Responsibilities included company officer for a ROTC company of approximately 70 students, professor for freshman and senior level courses, and managing the administrative function of the ROTC unit.
- Submarine Division Officer aboard USS Salt Lake City (SSN 716).

Education and Certifications

Master of Business Administration, Texas A&M University
Bachelor of Science in Nuclear Engineering, Texas A&M University
Senior Reactor Operator, License No. SOP-44261, Docket No. 55-41725
United States Navy Nuclear Engineer Officer Certification