

Sara E Schlenker, PE

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Education

Master of Science in Mechanical Engineering, (2006)

Villanova University

Villanova, Pennsylvania

Bachelor of Science in Mechanical Engineering, (2000)

Johns Hopkins University

Baltimore, Maryland

Work Experience

Naval Surface Warfare Center, Code 435

Mechanical Engineer

2002 – Present

- Universal Modular Mast Team Member
 - Integration of new antenna designs into the UMM for new construction and in-service submarines
 - Design and modeling of new components
 - Analysis of the maximum size available to a new antenna design
 - Stress calculations under shock, wave slap and hydrodynamic loading
 - System and integration testing
 - Development of work packages, procedures and drawings
 - Systems integrated include the Multifunction Modular Mast, the Mission Configurable Mast and Advanced High Data Rate antenna
 - Investigation of in-service equipment failures
 - Collection and analysis of failure data
 - Lead Test Engineer for land-based testing to determine the root cause of failed components
 - Work within Integrated Product Teams composed of multiple US Navy organizations to solve problems across system interfaces
 - Development and support of Fleet-based testing of prototype components
 - Coordinate Shock Testing of the UMM

2000-2005

- Imaging and Electronic Warfare Hull Mechanical and Electrical Group
 - Design of equipment improvements for in-service systems.
 - Examples have included surface area wear calculations for a sliding electrical contact, a laser alignment fixture and a hydrodynamically contoured closure cap
 - Conduct testing of new components
 - Perform calculations and analysis to provide engineering disposition on deviations in manufactured components, including SubSafe components.
 - Virtual modeling and FEA of new and existing components