



D E S I G N
R E S E A R C H
E N G I N E E R I N G

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Daniel J. Sinnott II, Ph.D.

Professional Specialization

Naval architecture and marine engineering design and analysis. Naval composite structures drafting and computer-aided design. Military automotive components structural fatigue experimentation, analysis, and survival statistics. Welded structures analysis with finite element and linear/non-linear analytic methods. Military and commercial welding procedures and documentation review. Ultrasonic, liquid penetrant, and visual non-destructive testing methods. Hand, tool, machine-assisted, and computer numerical controlled assembly and manufacturing. Quality control inspection, maintenance, and component trend analysis.

Professional Background

Education - University of Michigan, Ann Arbor

Ph.D. Naval Architecture and Marine Engineering
M.S. Naval Architecture and Marine Engineering
B.S.E. Naval Architecture and Marine Engineering

Project Engineer

Design Research Engineering, Novi, Michigan, 2023-Present

Laminate Engineer

Sinnott Engineering Services LLC, Plymouth, Michigan, 2019-Present

Welding Team Lead/Technical Point of Contact (TPOC)

Naval Surface Warfare Center Philadelphia Division, Philadelphia, Pennsylvania, 2022-2023

Research Assistant,

University of Michigan, Ann Arbor, Michigan, 2017-2022

Engineering Intern,

THOR Solutions LLC, Arlington, Virginia, 2017

Engineering Intern,

Royal Caribbean Cruises LTD, Miami, Florida, 2016

QC Assistant/Machinist

DADCO Inc, Plymouth, Michigan 2017-2018

Conferences

“Fatigue resistance optimization of armored vehicle structures using weld master S-N curve,”
Automotive Research Center (ARC) Research Seminar Series, 2019. (D. Sinnott, C. Mayhood).

“Fatigue resistance optimization of armored vehicle structures using weld master S-N curve,”
Automotive Research Center (ARC) Research Seminar Series, 2020. (D. Sinnott, C. Mayhood).

Doctoral Dissertation

“An Experimental and Finite Element Study of the Fatigue Behaviors of Welded Armor Plate Joints,” University of Michigan, Ann Arbor, March 2022