



**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**

46475 Desoto Court  
Novi, Michigan 48377  
Tel: (248) 668 - 3450  
Fax: (248) 668 - 3460

## **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. Maritime cargo loading and lashing analysis. Maritime drydocking and shoring design analysis. Welded structures analysis with finite element and linear/non-linear analytic methods. Military and commercial welding procedures and documentation review. Finite element model development and analysis of automotive structures and energy piping infrastructure. 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