

Address:

# Zackary R. Stull

Contact:

Active Secret Clearance  
www.zackstull.com

## EXPERIENCE

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### Test & Evaluation Solutions, LLC

Auxiliary Systems Engineer – LPD 17 Class Design Site - Washington, DC

May 2019 – Present

- Support PMS 317 in design matters related to auxiliary systems and ship’s mission.
- Develop and review ECRs, CRs, and PRs to improve the design and ensure compliance with appropriate military standards.
- Conduct technical reviews of CDRLs to ensure the ship testing is conducting in accordance with military standards.
- Observed operational testing and filled out trial cards at LPD 27 PSA Sea Trials.

Survivability Engineer - Warrenton, VA

January 2017 – Present

- Perform time-based vulnerability and recoverability survivability assessments for U.S. and international navies.
- Analyze and visualize output data from assessments using MS Excel, SQLite databases, and Tcl/Tk.
- Create technical reports and presentations with results and design recommendations.
- Contributed to the LCS DDISAR and FSAR.
  - Assessed and wrote LCS FSAR sections for vulnerability, mission capability after damage, and stability for AIREX and UNDEX threats.
  - Presented results to DOT&E and IDA officials at monthly meetings.
  - Tested software and wrote supporting documents for IRM VV&A effort.
  - Received LCS Bullrider award for contributions to the LCS FSAR.
- Develop and analyze fault tree logic for naval ship survivability requirements.
- Conduct crew egress and peacetime fire analyses for naval ship designs.
- Model naval ship systems using the Integrated Recoverability Model.
- Work with NSWCCD engineers to develop a database interface between vulnerability and recoverability software programs.

Fraunhofer Institute LBF: Kranichstein, Germany

June 2016 – December 2016

Bachelor Thesis

- Analyzed and assessed the functionality of open-source CAD, FEA, and simulation/modeling analysis software.
- Publicized results of the research by writing posts in German for the OpenAdaptronik blog.

Virginia Tech CenTire Lab

Summer 2014

Research Assistant - Blacksburg, VA

- Created a nonlinear, multi-layered model of a Bridgestone tire using Autodesk Inventor.
- Used ABAQUS to perform both stress and acoustic finite-element analyses of the model.

## EDUCATION

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Virginia Tech, Blacksburg, VA

August 2012 – May 2017

B.S. Mechanical Engineering, Minor: Mathematics  
Cum Laude | Virginia Tech Honors College

Technische Universität Darmstadt, Darmstadt, Germany

July 2015 – December 2016

B.Sc. Mechanical & Process Engineering | VT-TUD Dual-BSME Program

- Achieved UNiCert II level proficiency in German within one year of study, including technical language.

## COMPUTER SKILLS

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MS Office Suite (Excel, Word, etc.)

SQLite

Java

Visual Basic for Applications (VBA)

Tcl/Tk

Matlab

## PAPERS

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Waltham-Sajdak, J., Chung, J., Shin, Y., & Stull, Z. (2018). *The Effect of Reduced Manning on Damage Control Performance in a Mid-Sized Destroyer* (Tech.). Korean Naval Technology Seminar 2018.

Waltham-Sajdak, J., Fresa, R. G., & Stull, Z. (2017). *Effectiveness of Smart Valves within the Chilled Water Distributed System of a Surface Combatant* (Tech.). Korean Naval Technology Seminar 2017.