BRANDON HESSLER

Work email: brandon.hessler@navy.mil | Personal Email: resume@brandonhessler.com

Education

Penn State   **2016- 2018**
- Earned a Master's of Science in Software Engineering, GPA .

California State University Long Beach   **2009- 2012**
- Earned a B.S. in Physics with a Minor in Applied Mathematics.
- 3.81 GPA in upper division physics classes: 3.46 overall.
- Graduated receiving department honors and the Robert Rhodes Scholar award.

Professional Experience

U.S. Navy, NAVAIR   **Jan 2013 - Present**
Software Engineer
- Working with an agile team, create software applications for use in a microservice environment. These applications are used in flight mission planning system and is created with modern technologies; and are built for use in a distributed environment. Using Java, Spring Boot 2.0, Windows, Linux, virtual machines, Docker, JavaScript, and React
- Wrote a software product in Java that is a plugin to a Government Off The Shelf (GOTS) program that will interface with other software and hardware that are already in use by the engineers on a daily basis which will automate their testing process: saving both time and money.
- Developed a software solution for aircraft maintenance operations including a pc based Java application, an Android app, a shared MySql Database, and a web service to transfer data.

JATO Test Engineer
- Developed an algorithm for the ALQ-99 Jammer Pod, Jammer Management System.
- Wrote a program in Visual Basic implementing the algorithm for use by the engineering team and in mission planning.

L3 Communications, Insight Technology   **Summer 2012**
Manufacturing Engineer – Intern
- Primary Manufacturing Engineer for the Digital Magnetic Compass product line.
- Diagnosed and fixed 90 units, returning $270,000.00 worth of product to production.
- Analyzed and fixed a Helmholtz chamber's sensory circuit and reprogrammed the coefficients in order to be able to resume production on four product lines.

College of Natural Science & Mathematics – Physics Department   **2009- 2012**
Research Assistant
- Researched as part of the CSULB Nano-Optics lab under Dr. Yohannes Abate gaining a multifaceted laboratory experience with an emphasis in near-field microscopy.
- Published three papers and presented research and findings on many instances including two APS presentations.

Military Service

U.S. Marine Corps - Corporal   **2005-2009**
Lead Machine Gunner and Security Force Commander
- Taught 30 Marines the skills necessary to be effective, combat ready machine gunners.
- Maintained accountability of 10 weapons systems and over 360,000 rounds of ammunition over 7 months.
- Secured over 40 missions in Iraq as the security leader resulting in no loss of life, limb, or property.

Supervising Machinist
- Supervised a shop and a team of 10-20 Marines in daily metal working shop operations.
- Helped lead a team that saved the US Government an estimated $500,000 annually.

REFERENCES AND A LIST OF PUBLICATIONS AND PRESENTATIONS AVAILABLE UPON REQUEST