EMMANUEL BILLIAS

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OBJECTIVE

Expand professional and academic knowledge base through the practical application of skills developed inside and outside of academia. To work with an exceptionally motivated team, accomplishing personal and professional goals.

SKILLS

Mathematics - Statistics, Calculus, Differential Equations, Real/Complex Analysis

Theoretical/Applied Physics - Quantum Mechanics, Electrodynamics, Statistical Mechanics

Languages/Software - C, C++, Java, Python, HTML, Bash, LaTeX, Markdown, R, MATLAB, Git

EDUCATION

- B.S. Physics, Stony Brook University | May 2017
- M.S. Computer Science, Old Dominion University | Present (Expected May 2022)

EXPERIENCE

United States Department of Defense

US Navy Diver | December 2017 - Present

- Specializing in diving missions such as salvage operations, recompression chamber support, and harbor clearance.
- Effectively maintain 10 different Diver's Life Support Systems (DLSS) within the scope of the US Naval 3M Program.
- Carry out Re-Entry Control (REC) engineering operations for DLSS within the scope of the US Naval Quality Assurance Program.

ADDITIONAL EXPERIENCE

- Researched Bell Test Experiments (CHSH Inequality) associated with the Center of Quantum Information Science (QIS) at Long Island.
- Designed and tested solutions for an oscillating Michelson Interferometer as a part of QIS research.
- Provided Hyperbaric Treatment capabilities for aviation related decompression sickness aboard Aircraft Carrier Dwight D. Eisenhower (CVN-69) within Carrier Strike Group Ten (CSG-10) for 175 consecutive days at sea.
- Assisted in humanitarian efforts involving the distribution of COVID-19 vaccinations for over 100,000 residents of Queens, New York.