

JASON HOWARD WOHLGEMUTH

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SUMMARY

A Naval Nuclear Propulsion Officer with a Master's degree in mathematics who excels as an engineer, analyst, and project lead in myriad technical and creative situations and circumstances. A professional with proven aptitude for analyzing data, solving difficult technical and algorithmic problems, displaying complex results visually, and effecting *process improvement*.

INFORMATION TECHNOLOGY

Programming Languages

- (*Experienced*) Python, JavaScript, HTML5/CSS3, XML, LaTeX, ActionScript
- (*Familiar*) Java SE, PHP, MySQL, VBA

Software

- Microsoft Office Suite, Maple, MATLAB, Windows OS, Linux OS, Adobe Photoshop, Adobe Fireworks, Adobe Flash, Visual Studio, Eclipse, Sikuli

SKILLS

Analysis / Problem-Solving

- Completed 9 units of *operations research* courses while working toward a Mathematics masters which strengthened my ability to apply mathematics to real-world problems and achieve *immediate* process improvement.
- Wrote thesis, "Small World Network Properties of Facebook Group Networks". The research involved leveraging a python Facebook API to retrieve public data from Facebook, then performing statistical and network analysis on the data using assorted python data analysis/visualization modules such as NetworkX.py and Matplotlib, mathematical software such as MATLAB and Maple, and personal scripts. The delivery and defense of the thesis showcased the ability to defend a logical position, speak in public, present large amounts of data, and create documents using LaTeX. *Thesis has been approved for publication in the scientific journal, Complex Systems.*
- Performed statistical analysis on large datasets and combined the results with network properties such as clustering coefficients and average shortest paths to obtain a more complete understanding of the data.

Engineering / General Management

- As a division officer on a submarine, supervised the daily operations of a nuclear reactor and engine room at sea and in port, maintaining electrical power to vital systems throughout the submarine.
- Led teams through complex technical evolutions, during maintenance and casualty situations, maximizing efficiency while maintaining a safe environment.
- Demonstrated a consistently high *aptitude for learning* in multiple learning institutions such as the Navy Nuclear Power School, the Navy's most difficult school(*graduated in the top half*).
- As an undergraduate, worked as a lab assistant for the department chair investigating plasma phenomena. Constructed circuitry to detect and analyze ion acoustic waves that was later integrated into an upper level experimental physics laboratory course.

EXPERIENCE

07/10 - Present, *Strategic Plans Officer*

@USSTRATCOM Joint Functional Component Command, Global Strike

- Managed program for 20-person division's flagship web application; defined requirements, enabling more efficient management of development; expanded user community to outside division and command.
- Streamlined communication up chain of command and facilitated executive-level, biweekly planning meetings; improved planning process and enabled collaboration and senior leader strategic decision making.
- Consulted with multiple groups in US Strategic Command; provided technical counsel on projects involving **network analysis** and **operations research**; improved products and furthered approval/development process.
- Modernized websites, maintained collaboration tools, created new tools for mission accomplishment, and maintained overall situational picture as division knowledge manager; improved productivity and efficiency.
- Created/managed critical watch station with 6+ watch standers; standardized procedures, analyzed operations and made improvements; synchronized complicated watch/operational schedules and maximized efficiency.
- Managed security clearances for 14 employees; developed checklist and streamlined and standardized process; led to no lost work-hours for new arrivals and enabled operational effectiveness in days rather than weeks.
- Created a Microsoft Access database application that increased situational awareness for the division.
- Taught prevention and response classes for 100+ employees; enabled 100% compliance with new policies.
- Rated by commanding officer as "#2 of 19 highly competitive lieutenants."

05/06 – 07/10, *Submarine Warfare Officer*

@USS *Louisiana* (SSBN 743)

- Led team to verify 100% of damage control gear prior to sub's major Operational Reactor Safeguard Exam; ensured zero deficiencies and sub's ability to combat any casualty, real or simulated, during patrols.
- Led efforts to improve tracking and control of top secret material; drafted and executed aggressive plan that successfully fixed sub's wayward security program; led to no security-related discrepancies during inspection.
- Selected out of 10 officers as sub's inaugural LAN officer; essential in writing operating instructions; maintained LAN with 100% compliance and no major discrepancies during inspections.
- Selected to run entire sub while underway as Officer of the Deck through Captain's off-duty times during mid-watch; ensured safe operations and successful completion of mission vital to national security.
- Directed maintenance and repair on millions of dollars of electrical equipment, including sub's motor generator, and electric plant breakers and interlocks; ensured sub could meet 100% of its underway deadlines.
- Selected to serve as primary engineering officer supervising engine room of 12 people during strenuous sub- wide operational inspection; contributed to sub maintaining high standards and "excellent" performance.
- Volunteered to serve as crew lay leader; established rotational program using wake-ups and watch-reliefs to enable people to attend meetings; increased attendance 150% and improved morale and camaraderie.

PROFESSIONAL AWARDS

- **2011** Joint Service Achievement Medal
- **2010** Navy and Marine Corps Achievement

EDUCATION

- **2012** Master of Arts, Mathematics, University of Nebraska at Omaha
- **2006** Bachelor of Arts, Mathematics, University of San Diego
- **2006** Bachelor of Arts, Physics, University of San Diego

OTHER

- Cleared for Top Secret information and granted access to Sensitive Compartmented Information based on a Single Scope Background Investigation.
- 2011 - 2013 Tutored local high school students in Geometry and Trigonometry
- 2012 - 2013 Tutored online with tutor.com in Calculus and Algebra