

# Robert Piazza

Edmonds, WA • RobertPiazza@outlook.com • 518-867-1914 • [Linkedin.com/in/PiazzaRobert](https://www.linkedin.com/in/PiazzaRobert)

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## Goals and Objectives

Innovation expert in data science, machine learning, augmented and virtual reality applications seeking to provide insights and tools for challenging problems.

## Summary of Qualifications

An experienced and organized manager of multi-disciplinary teams with a technical background and deep understanding in data science and extended reality solutions. Focused on innovation, efficiency, and flexibility in ever-changing requirements and contexts. Qualifications and competencies include:

- Deep Leadership Experience
- Team-oriented
- Data Analysis/Statistics
- Machine Learning
- Top Secret Clearance
- Python, SQL, R, Excel, MatLab
- BI Dashboard creation
- ML Libraries including Tensorflow, Keras, PyTorch, scikit-learn
- Data source aggregation
- Automation of repetitive activities
- Training and Teaching

## Education

**MS** Engineering Management, Old Dominion University ..... 2017

**BS** Dual Degree in Nuclear & Mechanical Engineering, Rensselaer Polytechnic Institute ..... 2010

## Professional Experience

**Booz Allen Hamilton**, Seattle, WA ..... September 2017-Current

*Associate* ..... July 2017-Current

*Senior Consultant* ..... September 2017-June 2017

- Devised, successfully proposed, and currently leading first company project focused on application of machine learning to acoustic data for classifying sound generation platforms and developing identification signatures. Gathered relevant open data sets, established an internal python package for collaboration, documented with Sphinx, and created a pipeline of ML models and statistical methods to operate on a terabyte-scale database to establish an 83% accuracy rating across 10 groups of imbalanced class size. Created time-series and location-based dashboards to visualize results.
- Served as Technical Project Lead for assessing Augmented Reality capabilities in military maintenance tasks. Led interviews to understand customer needs and delivered a two-year study to clients detailing benefits of implementation and obstacles to completion. Created standardized surveys for demonstrations and met with potential users around the globe. Created pipelines for importing standard documents into an API for scalable translation of procedure databases.
- Engaged with Unmanned Undersea Vehicle Squadron One (UUVRON-1) to provide technical advice for fleet experimentation, technology advancements, and policy development. As part of this project, attended Penn State Applied Research Lab Unmanned Undersea Vehicle short course, focused on systems-level integration of design factors and trends in related technology.
- Industry advisor for University of Washington Electrical Engineering capstone project focusing

on wireless power and data transfer over short distances on an unmanned underwater platform and developed a working relationship with a small start-up company providing the hardware expertise in technology transfers.

**US Navy Officer**, Various Locations.....June 2010-August 2017

*Communications Officer*, Trident Training Facility, Bangor, WA ..... July 2015-August 2017

- Served as the Navigation Department division officer, overseeing training and instruction for Trident Training Facility (TTF). TTF is a multi-million-dollar facility used for training over 7000 students per year and crucial to the success of corporate goals.
- Developed, successfully implemented and executed programming for a submarine training simulator, creating training scenarios and new tools to provide greater quality learning in navigation and achieve organizational goals for over 400 students a year
- Assembled a two-year projection of trainer use by compiling data and analyzing departmental use. Presented summary to upper management demonstrating a potential 15% improvement in capacity with proposed changes
- Spearheaded the creation of a new command wide program to ensure periodic professional development of officer instructors in areas valuable to their future careers by organizing monthly events in learning environments outside their normal operations
- Hand-picked by Commanding Officer to manage all operations in Navigation department including leading inter-departmental projects, interacting with defense contractors and providing input for facility improvements for three months, reporting directly to senior leadership.

*Officer*, USS Louisville, Pearl Harbor, HI..... May 2012 – June 2015

- Nuclear-trained, Engineer-qualified submarine officer served on fast-attack (USS LOUISVILLE, SSN 724). Served as Assistant Operations Officer, Diving Officer, Chemistry and Radiological Controls Assistant, Electrical Officer, Torpedo Officer and Wardroom Treasurer.

## **Other Experience and Relevant Volunteer Work**

- End to end pipeline for counting number of attendees at public events via computer vision software and implementing on edge devices
- Personal home projects including using computer vision for solving visual puzzles
- Personal portfolio available at <https://github.com/robertpiazza>

## **Certifications**

- Top Secret Security Clearance
- Qualified Instructor for the Navy

## **Additional Training**

*Data Science Career Track* via Datacamp ..... 2019

*Third Place Team*, HackTheMachine Data Science Track ..... 2018

*Unmanned Underwater Vehicle Design Short Course* via Penn State Applied Research Lab..... 2018

*Exploring Data Science* Booz Allen Hamilton Course via ThisIsMetis ..... 2018

*Data Science Specialization* from John Hopkins University via Coursera ..... 2017

*Machine Learning Certification* from Stanford University via Coursera ..... 2016

*Nuclear Power Training Unit*.....2011-2012

*Naval Nuclear Power School*, Naval Reactors.....2010-2011