

RYAN GALLAGHER

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SKILLS

Languages: C, Java, Python

Libraries: NumPy, PyTorch, Pandas, Scikit-Learn

Version Control: Git, GitHub

Modeling & Simulation: PIPE-FLO, MATLAB

Computer-Aided Design: AutoCAD, SolidWorks

EXPERIENCE

Leidos, Philadelphia, PA

May, 2020 - Present

Mechanical Engineer

- Designed fully autonomous auxiliary systems for U.S. Navy and DARPA unmanned surface vessels.
- Designed a wide range of engine systems for U.S. Navy vessels to properly support the ships engines in all mission scenarios.
- Developed digital models of auxiliary systems to evaluate system performance which lead to optimization and performance improvements.
- Providing programmatic and engineering support to the Naval Surface Warfare Center in the development of the land based test site for the DDG(X) program.
- Analyzed data from LPD 17 class ships to prove that a specific modification to the ship would lead to reduced operating time of the ships engines.
- Developed software to assist in the ship design process:
 - Trained a vanilla feed forward neural network to predict eductor suction flow rates in a partially-observable environment which allows for the computation of the dewatering rate of a watertight compartment.
 - Developed a simple program with an easy-to-use GUI that allows the user to perform a range of computations.
 - Developing a reinforcement learning model to arrange equipment on a ship with unique requirements.

Monroe Energy, LLC, Trainer, PA

May - August, 2016 - 2019

Mechanical Engineering Intern

EDUCATION

Drexel University, Philadelphia, PA

2021-Present

Master of Science, Computer Science

My current path is to study core computer science subjects with a focus in artificial intelligence and machine learning. Graduating in the spring of 2025.

- Cumulative GPA: 3.93

Thomas Jefferson University, Philadelphia, PA

2018 - 2020

Bachelor of Science, Mechanical Engineering

- Cumulative GPA: 3.39

West Chester University of Pennsylvania, West Chester, PA

2015 - 2018

Bachelor of Science, Physics

Minor, Mathematics

- Cumulative GPA: 3.11