Ryan Gallagher

**Media, PA |** (610) 731-3822 | ryan.gallagher900@gmail.com | gallagherj1@leidos.com

# Experience

**Mechanical Engineer - Leidos**  
Current | Philadelphia, PA

* • Developed and optimized autonomous auxiliary systems and engine systems for U.S. Navy vessels.
* • Created software tools, including a feed-forward neural network to predict eductor suction flow rates.
* • Developed an intuitive GUI application for various computational tasks.
* • Working on reinforcement learning models to optimize equipment arrangement on naval ships.

# Education

**Master of Science in Computer Science**  
Expected in Spring 2025  
Graduation Date: Spring 2025

**Bachelor of Science in Mechanical Engineering**  
Name of University  
Graduation Date: Graduation Date: YYYY

# Skills

Machine Learning & AI: Extensive hands-on experience with PyTorch, NumPy, and Scikit-Learn. Developed neural networks for predictive modeling and optimal system arrangement. Software Development: Proficiency in Python, with practical experience in implementing machine learning algorithms and developing software tools for engineering applications. R&D and Customer Engagement: Proven track record in delivering advanced engineering solutions to both internal and external customers, including the Naval Surface Warfare Center. Cross-disciplinary Expertise: Unique combination of mechanical engineering and computer science, allowing for an integrated approach to developing ML-based engineering solutions. Performance Optimization: Designed and analyzed digital models leading to performance improvements and operational efficiency in complex systems.