

**The Department of Mechanical Engineering  
College of Engineering and Applied Sciences  
Stony Brook University**

**Mechanical Engineering Seminar**



**Dr. Adam Vaughan,**  
Founder and CEO, Dauntless.io



**Title: Physical AI**

November 7<sup>th</sup>, 2025 at 2:00 PM, Room 173, Light Engineering Building

**Abstract:**

We will discuss the intersection of Artificial Intelligence (AI), Generative AI, and controlling our physical reality with real-world examples, including real-time solutions physically deployed in the Fortune 500.

**Bio:**

Dr. Adam Vaughan is a mechanical engineer and entrepreneur who earned his Ph.D. in Mechanical Engineering from the University of Michigan, where his research focused on adaptive machine-learning methods for real-time control of complex physical systems such as engine combustion. He previously studied at The Cooper Union in New York City, completing both his bachelor's and master's degrees in engineering. Vaughan is the founder and CEO of Dauntless.io, a deep-tech startup developing ultra-low-latency AI systems that integrate hardware, firmware, and software to control physical dynamical systems in real time. His work bridges advanced control theory and modern machine learning, emphasizing sub-millisecond adaptive feedback and real-world deployment of AI in industrial and embedded environments.