

ADAM SABET

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SKILLS

Programming: Python, C++, MATLAB, JavaScript, Jupyter, Git/GitHub, NumPy, Pandas, scikit-learn, PyTorch, TensorFlow, R

Machine Learning & AI: Reinforcement learning, Convolutional Neural Networks, Supervised Learning, Bayesian Neural Networks, Model Evaluation, Probabilistic Modeling, k-fold Cross Validation, Decision Trees, Random Forests, Clustering

Mathematics & Decision Making: Probability, Statistics, Dynamical Systems, Optimization, Numerical Modeling

Robotics & Autonomous Systems: Embedded Systems, Raspberry Pi, Telemetry Systems, Sensor Integration, Control Systems, Kinematics, Monte Carlo Simulation

Engineering Tools: CAD (SolidWorks, Onshape, AutoCAD), CNC machining (mill, lathe, drill), data analysis pipelines

WORK EXPERIENCE

NASA Student Launch Initiative - Deputy Project Manager

Aug 2023 – May 2026

- Led systems engineering for Ohio State's NASA Student Launch team, which consistently ranked among the top 20 of 80+ university teams nationwide.
- Designed and integrated embedded sensing systems, telemetry hardware, and Raspberry Pi-based autonomous control software.
- Developed firmware implementing autonomous state-transition logic using real-time sensor measurements.
- Performed Monte Carlo simulations to model system performance under uncertainty, analyzing environmental variables including wind, temperature, humidity, and geometry. Conducted systems integration, structural testing, recovery validation, and hardware verification.
- Authored and presented over 500 pages of technical documentation reviewed by NASA engineers and safety officials.
- Managed project planning, subsystem coordination, and engineering reviews across multidisciplinary teams.

Discovery Lab Global - Machine Learning Research Intern

May 2023 – Aug 2023

- Developed reinforcement learning and neural network models in Python for sequential decision-making tasks in simulated environments using Atari Pong.
- Implemented, trained, and evaluated machine learning models while studying reinforcement learning, decision forests, and neural network architectures.
- Contributed 400+ pages of technical documentation describing model design, training procedures, and experimental evaluation.
- Presented research findings to industry leaders interested in artificial intelligence applications.

Mathnasium - Mathematics Tutor

Nov 2021 – May 2023

- Delivered individualized instruction in mathematics to K–12 students across multiple ability levels
- Adapted problem-solving strategies to student needs, improving comprehension and performance
- Supported 100+ students through structured tutoring sessions and concept reinforcement

PROJECTS

3-DOF Robotic Arm – Independent Robotics Project

Jun 2026 – Sept 2026

- Designing and building a robotic arm platform implementing forward/inverse kinematics and embedded control.
- Exploring learning-based approaches for autonomous manipulation, positioning, and task execution.
- Integrating simulation and physical hardware testing to evaluate robot behavior and control performance.

EDUCATION

Stanford University – Incoming M.S. Electrical Engineering (Robotics & Autonomous Systems)

Sept 2026 – Jun 2028

The Ohio State University - B.S. Physics & Economics | GPA: 3.99 / 4.0

Aug 2023 – May 2026

- **Relevant Coursework:** Big Data Analytics in Physics (ML), Advanced Physics Laboratory, Electromagnetism, Computational Physics, Statistical Analysis, Numerical Methods, Differential Equations, Linear Algebra
- **Selected Course Project:** Developed convolutional and Bayesian neural networks in Python to predict spatial tin and tungsten distributions from geological survey data, applying probabilistic machine learning methods to scientific datasets.