CONNOR BOSSARD

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EDUCATION <i>Expected May 2026</i>	GEORGIA INSTITUTE OF TECHNOLOGY MS Robotics Concentration: Artificial Intelligence, Controls, Dynamics <i>GPA 4.00</i>	Atlanta, GA
May 2024	GEORGIA INSTITUTE OF TECHNOLOGY BS Mechanical Engineering Minor: Computer Science – Artificial Intelligence <i>GPA 3.94</i>	Atlanta, GA
EXPERIENCE May 2025 – <i>Present</i>	SANDIA NATIONAL LABS Autonomous Flight Intern	Albuquerque, NM
Aug 2023 – Present	 DART LAB AT GEORGIA INSTITUTE OF TECHNOLOGY Atlanta, GA Research Assistant – Sandia National Labs Leveraged Deep Reinforcement Learning algorithms on 6 Degree of Freedom aerial vehicles to find vulnerabilities and defeat adversarial scenarios in high-fidelity simulations (AFSIM) Utilized Transfer and Curriculum Learning principals to decrease training time and improve performance of Deep Reinforcement Learning models Trained LSTM and Transformer models to create generalizable, light-weight adversarial models for rapid trajectory validation 	
May 2023 – Aug 2023	 SHIELD AI Dallas, TX Mechanical Engineering Intern Redesigned subsystem on UAS that significantly increased reliability while decreasing assembly time Modeled and fabricated multiple prototypes of the subassembly and down selected to a chosen design Utilized FEA and safety factors to assist in material selection and ensure strength of subsystem Presented redesigned subsystem to management for implementation in further releases of the aircraft Developed python interface to automate the visualization of flight controls data, leading to a 75% decrease in time spent visualizing data post flight 	
May 2022 – Aug 2022	PROCTER & GAMBLE Cincinnati, OH Research and Development Intern • Utilized PowerBI to visualize data, mockup enhancements and presented solutions for management • Wrote a python script to automate the unification of data, saving the company 100's of hours annually • Developed enhancements for two corporate systems, using both qualitative and quantitative metrics to measure success of implementation	
PROJECTS May 2022 – Aug 2022	-	rientation
Aug 2021 Dec 2022	 EPIC LAB AT GEORGIA INSTITUTE OF TECHNOLOGY Atlanta, GA Undergraduate Research Assistant Developed enclosure for exoskeleton electronics, accounting for vibrational and environmental stresses Contributed to the development of a hip exoskeleton that uses robotic augmentation technology to restore human movement in individuals with mobile disabilities Implemented python based micro controller to drive movement of the exoskeleton Integrated python GUI, allowing users real-time access to sensor metrics via a wireless socket connection 	
SKILLS	Certifications : Intro to FEA – Udemy, Linux for Robotics – The Construct, C++ for Robotics – The Construct, Python 3 Programing— University of Michigan Relevant Coursework: Deep Reinforcement Learning, Machine Learning, Artificial Intelligence, Perception and Robotics, Non-Linear Controls, Linear Controls, Machine Design, Materials and Manufacturing, Heat Transfer, Computer Organization, System Dynamics, Data Structures and Algorithms, Fluid Mechanics Software : Python, Julia, C++, MATLAB, ROS, AFSIM, SolidWorks, Java, Arduino, Raspberry Pi	