

ADDISON W. MOTTO

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Profile	Engineer with hands-on experience in manufacturing, product design, and project management. Proven ability to excel at a diverse mix of academic, creative, community, and athletic endeavors. Enjoy working with my hands, tinkering, and turning design into reality.
Academics	CORNELL UNIVERSITY (2022 – Present) Major: Mechanical Engineering, Sibley School of Mechanical and Aerospace Engineering GPA: 3.86, College of Engineering Dean's List, Leadership Development Program
Experience	CREATIVE ENGINEERING LLC, Mechanical Design Intern (Summer 2025) <ul style="list-style-type: none">Intern at engineering firm delivering innovative designs across a broad range of products.Owned end-to-end development of an interactive exhibit featuring a 5ft functioning wind turbine, including CAD modeling, vendor coordination, and final on-site assembly.Designed parts for the new Times Square NYE ball, a control panel box, and other projects in alignment with customer requirements, using DFM, DFA, GD&T, and a variety of machined, welded, 3D printed, laser cut and injection molded parts.Participated in regular design reviews, presenting models and receiving feedback from senior engineers and clients.Performed statics and materials science calculations for the design of patent pending devices, manufacturing equipment, mechanical tools, and a defense-related project. RAYTHEON (RTX CORP), Mechanical Engineering Intern (Summer 2024) <ul style="list-style-type: none">Intern in Rapid Hardware Solutions Dept. focused on design and problem solving to support the build effort for radars and advanced defense systems.Hands-on experience in a high-tech manufacturing environment, including use of common design and manufacturing programs and an understanding of manufacture flow and QA.Interpreted engineering drawings and identified errors in test procedures and GD&T.Tested products against strict DoD protocols and performed failure root cause analysis.Active US Security Clearance at the 'Secret' level. HIKMA PHARMACEUTICALS, Manufacturing Intern (Summer 2023) <ul style="list-style-type: none">Intern at a large sterile injectables manufacturing facility of Hikma (LSE: HIK), a global pharmaceutical company and leading supplier of medicines to US hospitals.Exposure to a broad range of manufacturing activities in an FDA and DEA-regulated environment, operating under extensive SOPs and cGMP.Provided hands-on support in the use of state-of-the art technology for manufacturing and automated high-speed, high-volume liquid filling lines. CORNELL ELECTRIC VEHICLES, Student Project Team (Fall 2023 – Present) <ul style="list-style-type: none">Build autonomous electric vehicles for the Shell Eco-Marathon competition.Design and manufacture power transmission systems. Develop autonomous steering and braking mechanisms actuating the outputs of software and electrical autonomy.Led the design and fabrication of a custom dynamometer through use of a load cell and a tachometer. Delivered a new design under an aggressive timeline and with salvaged parts. CORNELL ENGINEERING LEARNING INITIATIVES, Tutor (Fall 2023 – Present) <ul style="list-style-type: none">Recruited by Cornell to tutor peers in Physics, Multivariable Calculus, and Chemistry.
Skills and Interests	<ul style="list-style-type: none">SolidWorks, Autodesk Inventor, Fusion 360, CREO CAD, SAP PRISM, Ansys Mechanical & Thermal, MATLAB, PythonPiano, skiing, running, fishing, travel