


# Adam DiMaio

Mechanical Engineer

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Summary	I am a graduating Mechanical Engineer (May 2025) with expertise in Mechanical Design, FEA, CAD, and Manufacturing, seeking a role to apply my technical skills and problem-solving mindset to solve real-world challenges.	
Education	<b>Utah Tech University</b> Mechanical Engineering, BS GPA: 3.38	<b>August 2021 - May 2025</b>
Current Projects	<b>3U CubeSat</b> <ul style="list-style-type: none"><li>Currently working in a team of 4 on the Communications Team of the CubeSat</li><li>Responsible for parts of the Antenna Module Design, parts of the Earth Station Design, FCC Regulations, Manufacturing Components/Plans</li></ul>	<b>August 2024 - May 2025</b>
Professional Experience	<b>Brightline West</b> Intern	<b>June 2024 - July 2024</b> Las Vegas, NV
	<ul style="list-style-type: none"><li>Researched, Analyzed, and Translated Technical Knowledge and Key Points of the Code of Federal Regulations (CFR) for a White Paper Document.</li><li>Created a detailed Hazard Log Analysis of Operations and Management Risk for Passengers and Staff During the Operational Phase of the High-Speed Railway.</li><li>Collaborated in the Creation of a Contractor Integration Matrix that represented the Interface Control Documents between Contractors.</li><li>Reviewed Certain Criteria from Engineering Drawings of the Track and Highway to Determine and Mitigate Associated Risks.</li></ul>	
	<b>Brightline West</b> Summer Associate	<b>May 2023 - July 2023</b> Las Vegas, NV
	<ul style="list-style-type: none"><li>Worked with the Design of Infrastructure Team on the pioneering project of introducing the first High-Speed Train system in the United States.</li><li>Worked alongside Rolling Stock, Systems, and Maintenance Engineers to ensure a comprehensive project approach.</li><li>Assisted Rolling Stock Engineer in optimizing platform design, train dimensions, and layout for optimal performance and safety.</li><li>Collaborated with Systems Engineers to strategically position substations and design the layout of transmission lines for efficient power distribution.</li><li>Produced a comprehensive document outlining the Rail Neutral Temperature, a critical factor for the Maintenance of Way Engineer in ensuring safe and reliable railway maintenance.</li><li>Developed a Train Simulation Document utilizing Microsoft Excel to visually illustrate train departure and arrival times, optimizing the scheduling and operation of the high-speed trains.</li></ul>	
	<b>Utah Tech University</b> Research & Development Scholar	<b>August 2022 - May 2024</b> St George, UT
	<ul style="list-style-type: none"><li>Participated in the National Science Foundation funded INSPIRE program, which creates opportunities for students to solve real-world problems in small, interdisciplinary groups.</li><li>Worked within a group consisting of two Biology Majors and a Computer Science Major on creating a Proprietary Wearable Medical Device.</li><li>Used CAD, Coding, and Prototyping to create an innovative solution to help knee reconstruction surgery patients try and regain full range of motion faster.</li></ul>	

Certifications	<div>FE Mechanical Exam</div> <div>NCEES</div> <div> <a href="#">Badge</a></div>	February 2025
Skills	<div>Computer Aided Design (CAD) &amp; Manufacturing (CAM) Software</div> <div><div><div></div><div></div><div></div><div></div><div></div></div></div> <div>AutoCAD, OnShape, SolidWorks, Civil 3D, FreeCAD, Autodesk Fusion</div> <div>Finite Element Analysis (FEA) Software</div> <div><div><div></div><div></div><div></div><div></div><div></div></div></div> <div>ANSYS Workbench, Simcenter Femap with Nastran</div> <div>Fabrication/Manufacturing</div> <div><div><div></div><div></div><div></div><div></div><div></div></div></div> <div>CNC Machining/Operations, Laser Cutting, Waterjet, 3D Printing, Manual Mill, Manual Lathe</div> <div>Programming</div> <div><div><div></div><div></div><div></div><div></div><div></div></div></div> <div>MATLAB, Arduino, C++</div> <div>Microsoft Office Suite</div> <div><div><div></div><div></div><div></div><div></div><div></div></div></div> <div>Excel, Word, PowerPoint, Teams, Visio</div> <div>Interdisciplinary Collaboration</div> <div><div><div></div><div></div><div></div><div></div><div></div></div></div> <div>Followed Codes/Regulations</div> <div><div><div></div><div></div><div></div><div></div><div></div></div></div> <div>MIL-STD-461F, ASCE 7-16, NASA-STD-6016, HIPAA Compliance, ANSI HE75:2009, FDA Guidelines, IP65</div>	
Past Projects	<div>Electronic Motor Boat</div> <div>Paddle Prodigies</div> <div><ul style="list-style-type: none"><li>Collaborated in a group of 5 (4 Mechanical and 1 Electrical Engineering Students)</li><li>Tasked with creating the Propulsion System (Propeller &amp; Rudder) using Fluid Mechanics, Finite Element Analysis, and Machinery</li><li>Achieved about 218.62 N of Thrust Force on the Propeller</li></ul></div> <div>Arcade Game</div> <div>Excalibur</div> <div><ul style="list-style-type: none"><li>Collaborated in a group of 5 engineering students</li><li>Coded with Arduino to combine states of the Arcade game, also did certain aspects of the design, 3D printing, and laser cutting</li></ul></div> <div>Mini Electronic Golf Course</div> <div>National Parks</div> <div><ul style="list-style-type: none"><li>Used a Laser Trip to Ignite a Fog Machine using Arduino to Code</li><li>Collaborated and worked within a group of 6 other engineering students</li></ul></div>	<div>Jan - Apr 2024</div> <div>Jan - Apr 2023</div> <div>Jan - Apr 2022</div>
Interests	<div>Weightlifting</div> <div>Product Creation</div> <div>Nikola Tesla</div> <div>Traveling</div>	