

MEGAN TRAN

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EDUCATION

Harvey Mudd College Bachelor of Science, Mechanical Engineering GPA: 3.93/4.00 <i>Academic Achievements:</i> Dean's List (Freshman, Sophomore years)	Claremont, CA Aug 2024 – Expected May 2028
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Relevant Coursework: Mechanics, Industry Engineering, Electrical/Computer Engineering, Thermodynamics, Systems Engineering, Engineering Design and Manufacturing, Statistics/Probability, Electromagnetics & Optics, Physics, Chemistry, Linear Algebra, Multivariable Calculus, Molecular Biology, Macroeconomics, Technical/Research Writing, Computer Science

WORK EXPERIENCE

R&D Mechanical Engineer CurvaFix - Devise and prototype flexible and rigid connectors for a minimally invasive orthopedic implant system used to stabilize pelvic fractures - Engineer and build a custom test fixture (CAD, technical drawings, BOM) and develop an experimental protocol to evaluate fatigue durability	Aug 2026 – Present Claremont, CA
Design Quality Engineering Intern, Surgical Devices Medtronic - Redeveloped and architected Design Failure Mode and Effects Analyses (DFMEAs) in sustaining engineering function to align with current regulatory standards and state-of-the-art internal design procedures by facilitating cross-functional risk reviews with design quality, R&D, and SME teams to close critical gaps and identifying novel failure modes, and strengthening product safety and design control documentation - Investigated over five years of customer complaint data, diagnosing recurring failure trends and root cause drivers behind non-returned and “satisfactorily-tested” product returns, and presented findings into actionable recommendations - Supported FY26 external BSI QMS audit by retrieving and preparing requested documentation, verifying traceability, and preparing SMEs for the front room, all under time constraint. Shadowed front-room leads in auditor-facing dialogue, approach defenses, and deficiency response	Jun 2026 – Aug 2026 Minneapolis, MN
Imaging and Biophotonics Research Intern Harvey Mudd College Biophotonics Laboratory - Designed modular, low-cost optical in vivo imaging systems (IVIS), reducing costs by over 99% relative to commercial IVIS units leveraging consumer-grade hardware (Raspberry Pi, Arduino) to make advanced imaging accessible and affordable - Planned and developed mobile ergonomic imaging system and mobile interface, weighing stakeholder needs and technological capability to use in drug discovery, cancer diagnostics, and molecular biology applications - Conducted experimental validation and emission sensitivity testing with Claremont McKenna College’s Rathbun Lab, demonstrating a strong correlation between commercial reader photon counts and OpenIVIS-derived intensity, confirming research-grade reliability	Jan 2025 – Jan 2026 Claremont, CA
English and Math Tutor, Early Learning Specialist Kumon Learning Center - Instructed and mentored 70+ K-12 students on geometry, grammar, and calculus and generated lesson plans to fortify students’ comprehension - Tailored education approach for diverse student body, including flexible and tailored pathways for neurodiverse and accelerated pupils	Jun 2023 – Aug 2024 Buena Park & Cypress, CA

LEADERSHIP

SWE Chapter President, Company Events Coordinator Harvey Mudd College Society of Women Engineers - Direct Harvey Mudd SWE operations by conducting officer meetings, coordinating large-scale professional and outreach events including the National SWE Conference and WEST Conference, and strengthening collaboration between students, faculty, and the engineering department - Arrange recruiting events, technical talks, and engineer panels with technology companies, connecting 80+ members to industry professionals	May 2025 – Present Claremont, CA
Machine Shop Proctor Harvey Mudd College - Train and supervise students in the safe and effective use of machining tools, including lathes, mills, and CNC equipment - Support hands-on requests for academic and independent engineering projects, assisting users in material selection and machining techniques	May 2025 – Present Claremont, CA
Head Logistics Makerspace Steward Harvey Mudd College - Manage 40+ student-staff members to cultivate a safe, inclusive environment while upholding Makerspace operational and community values - Mentor university students and professors in creative projects by assisting with equipment and machines (welding, 3D printer, sewing machine)	May 2025 – Present Claremont, CA

SKILLS AND CERTIFICATIONS

Professional: Lean Six Sigma Yellow Belt Certification, A3 Investigations
Fabrication: 3D Printing, Welding, Soldering, Wood and Metal Machining Equipment, PCB Prototyping, Instron, Raspberry Pi, Oscilloscopes
Software: SolidWorks, MATLAB, Python, Java, SQL, Quarto, GitHub, Pivot Table
Project Development: Experimental Design, Data Analysis and Transformation, Literature Review, Poster Presentation, Microsoft Suite
Languages: English (Fluent), Vietnamese (Fluent), Spanish (Conversational)
Personal: Woodworking, Machining, Cooking, Baking, Pickleball, Running, Hiking, Catan

RECOGNITIONS

• Tau Beta Pi Engineering Honor Society	Jul 2026
• Medtronic Hackathon 2nd Place, Cardiovascular Track	Jul 2026
• Society of Women Engineers Los Angeles Section Scholarship	Apr 2026
• Harvey Mudd College Leadership Award, Dean Sundberg Prize	Apr 2026