

BEN LEVY

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SUMMARY

Multidisciplinary Engineer dedicated to building functional, precise, and creative solutions to complex physical problems. Combining a deep Mechanical Engineering foundation with full-stack software capability to lead o-to-1 builds - from biomedical wearables to robotic exoskeletons. Passionate about technical entrepreneurship: asking the right questions to solve the right problems using tech.

EDUCATION

University of Wisconsin-Madison , Madison, WI	Expected Dec 2026
<i>Bachelor of Science in Mechanical Engineering</i>	GPA: 3.83/4.0 (5x Dean's List)
<ul style="list-style-type: none">Relevant Coursework: Mechatronics, Instrumentation and Measurements, AI/ML for Material Science, Advanced CAD, Thermodynamics, Fluid Dynamics, Metals and Polymer Manufacturing.	

EXPERIENCE

BeatRite	Madison, WI
<i>Product Engineer</i>	Aug 2025 – Present
<ul style="list-style-type: none">Lead Engineer for pre-seed biomedical startup; translating clinical research into a functional wearable system integrating PPG, ECG, and IR sensors.Managing technical roadmap and directing an EE to ensure high-fidelity signal quality for downstream ML modeling.Architecting end-to-end hardware-to-mobile data pipeline for native iOS app; implemented Pan-Tompkins algorithm in Python for real-time R-peak detection.	
GE HealthCare	Madison, WI
<i>Applied AI Engineer (Contract)</i>	Aug 2025 – Dec 2025
<ul style="list-style-type: none">Promoted from Co-op to lead development of financial AI tools; utilized LLMs to automate complex company-wide budget allocations.	
<i>V&V Automation and Test Tools Engineering Co-op</i>	Jan 2025 – Aug 2025
<ul style="list-style-type: none">Awarded CTO's 3 Heartbeats Award for delivering "AI ARC OPS" (RAG), reducing workforce database query time from 45 min to <10s for 12+ managers.Engineered 24/7 Monte Carlo testing framework for anesthetic equipment, simulating 100k+ breathing cycles via 3D-printed physical interfaces for unattended stress testing.	

Glass Imaging	Los Altos, CA
<i>Mechatronics Engineering Intern</i>	June 2024 – Dec 2024
<ul style="list-style-type: none">Led multidisciplinary project integrating hardware and machine learning for advanced camera prototype; engineered novel lens housing to leverage AI-enabled lens design.Designed autonomous optical testing labs, reducing experiment duration by 30% via hardware-software integration.	
Madison Machine Interaction Lab	Madison, WI
<i>Undergraduate Researcher</i>	Nov 2022 – May 2024

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<ul style="list-style-type: none">First Author (IEEE Haptics 2024): Pioneered a novel method of utilizing layer jammers as actuators for VR haptic feedback devices.Methodically analyzed variable friction relationships to optimize the mechanical response of soft robotic prototypes.	
PERSONAL PROJECTS	
Berr Exo - Senior Design Project	Aug 2025 – Present

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<ul style="list-style-type: none">Leading mechanical and control architecture for a single-arm wearable exoskeleton; developing real-time Python control loops via UART to a brushless DC motor at the elbow joint.Won \$3,000 Brogden Design Competition funding for mechanical and power electronics innovation.	
Theta Tau	Jan 2023 – Present
<ul style="list-style-type: none">Executive Board Member: Established the chapter's first corporate sponsorship program, securing \$4,000+ in funding and building direct relationships with industry partners.	

SKILLS

Hardware: CREO, Solidworks, DFM/DFA, FEA, MATLAB/Simulink, CNC Machining, Microcontrollers, Biosensors.

Software: Python, C/C++, SQL, FastAPI, Swift, RAG Architecture, Azure LLMaaS, Local LLM Deployment.

Languages: Hebrew (Native), English (Native).