

Daniel Luzzatto

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Machine Learning & Robotics Engineer: LLM systems, computer vision, embedded AI, and full-stack prototyping.

EDUCATION

University of California, Los Angeles (UCLA) <i>M.Eng. Robotics & Autonomous Systems</i> – Core Coursework: Deep Learning, ML Algorithms, Embedded Systems, RL, Autonomous Robots.	Los Angeles, CA <i>Sep 2025 – Aug 2026 (In Progress)</i>
Technion - Israel Institute of Technology <i>B.Sc. Mechanical Engineering - Robotics track</i> – Core Coursework: Neural Networks (99), Robotics (95), Control Systems (95), Signal Processing (92). – President's List - Winter 2023–2024 (Top 3%).	Haifa, Israel <i>Jan 2021 – Feb 2025</i>

EXPERIENCE

Fusmobile - Biomedical Startup <i>Automation Engineering Intern</i> – Automated acoustic calibration in C++/Python, cutting process time 30 to 5 minutes across 10+ devices. – Built a Python maintenance tracker integrated with Arena/Google Calendar, improving uptime and scheduling efficiency for a 10-person engineering team. – Diagnosed hardware faults and ran precision calibrations, collaborating with engineers to refine test procedures.	Tirat Carmel, Israel <i>Feb 2025 – Aug 2025</i>
Flow Control Lab - Technion <i>Research Assistant - Supervisor: Prof. David Greenblatt</i> – Automated data acquisition in Python/LabVIEW, replacing oscilloscope with NI card to capture real-time signals. – Developed PID controllers and analysis scripts producing datasets supporting ongoing peer-reviewed research.	Haifa, Israel <i>Nov 2024 – Aug 2025</i>
STMicroelectronics <i>MEMS Testing Intern</i> – Collaborated on a 5-person team to perform pressure, temperature, and inertial tests on MEMS sensor.	Milan, Italy <i>Dec 2023 – Dec 2023</i>

PROJECTS

Agentic Privacy for Smart Sensors - UCLA Embedded Systems – Building an LLM-driven privacy hub that converts natural-language policies into multi-stage data-sanitization pipelines with planning, execution, and verification agents. Github Repo – Implemented agentic planning and adaptive tool selection (ReAct + LangChain) integrating OpenCV, Whisper, Kalman Filtering, and PyTorch models. – Added closed-loop verification and audit logging for automated policy enforcement and GDPR-style provenance tracking.	<i>Oct 2025 - Present</i>
Value Verdict - Sports Analytics Platform – Built full-stack analytics app (React/TS, Python, SQL) processing 220k+ events with interactive EV/variance dashboards. – Implemented probabilistic models (Shin method) and Kelly staking logic, achieving 6.87% ROI over 1300 events. – Deployed on Fly.io/Supabase/Clerk, using REST APIs for real-time odds ingestion and analysis.	<i>Aug 2025 – Present</i>
GPT-2 Reproduction - Technion Machine Learning – Reimplemented GPT-2 (124M) transformer architecture from scratch in PyTorch with BPE tokenization and FlashAttention; trained on FineWeb and achieved 26% accuracy on HellaSwag vs GPT-2's 28.9%. Github Repo – Optimized GPT-2 training on an A6000 GPU using cosine LR decay and AdamW, matching baseline performance.	<i>Jan 2025 - Feb 2025</i>

TECHNICAL SKILLS

Languages & Frameworks	Tools & Systems	Core Concepts
Python, C/C++, MATLAB, PyTorch, TensorFlow, scikit-learn, NumPy, Pandas, OpenCV	Git, Docker, Linux, ROS, Jupyter, SQL, Hugging Face, Arduino, Raspberry Pi	Deep Learning, Reinforcement Learning, Control Systems, Real-Time Systems, Transformers & Attention, Tokenization (BPE), Generative Models, Data Analysis

LANGUAGES

Italian (Native), English (Fluent), French (Fluent), Spanish (Fluent), Hebrew (Proficient)