Daniel Engelberg

danielengelberg131@gmail.com | linkedin.com/in/danielengelberg
Herzliya, Israel | Authorized to work in the US | Relocating to New York

SUMMARY

Engineering graduate (Technion) who writes software for real operations: a building-risk ontology over 1.28M NYC records with an explainable risk model (91% precision in the top 100 on a held-out year), and an AI maintenance-coordination platform (Python, PostgreSQL, 13-state workflow, 350+ tests). Turns ambiguous workflows into reliable systems.

SKILLS

AI: LLM APIs (Claude, OpenAI, OpenRouter), structured output, AI agents, speech-to-text, MediaPipe
Programming: Python, JavaScript, TypeScript, Node.js, SQL, MATLAB
Backend: Flask, PostgreSQL, REST APIs, webhooks, API integrations, job queues, pytest
Cloud and tools: Google Cloud Run, Firebase, Render, Sentry monitoring, Docker, Linux, Git
Languages: English (native), Hebrew (fluent)

EDUCATION

Technion – Israel Institute of Technology, Haifa, Israel Mar 2026
B.Sc. in Mechanical Engineering, Robotics specialization
Relevant coursework: Python, Robotics (Kinematics, Path Planning), Control Theory, Signal Processing, CAD, Mechanical Design, Manufacturing Processes, Fluid Mechanics, Solid Mechanics

PROJECTS

NYC Building-Risk Ontology | *Python, DuckDB, SQL, scikit-learn, JavaScript* Oct 2026

- Linked 1.28M records from 8 NYC Open Data sources into an ontology of landlords, owners, tax lots, buildings and events, resolving 95–99.7% of records to a tax lot
- Trained explainable per-outcome risk models on point-in-time features; on a held-out year, 91% of the top 100 Manhattan lots had 10+ new hazardous housing violations (25× the base rate)
- Linked single-building LLCs to the people behind them through HPD registrations, grouping 27.8K lots into 13.1K landlord portfolios
- Shipped an inspector tool (risk map, building 360 page, task queue with writeback), live at nyc-building-risk.vercel.app

Handy AI | *Python, Flask, PostgreSQL, Claude / LLM APIs, WhatsApp Cloud API* Oct 2026 – Present

- Built a WhatsApp AI maintenance coordinator for property managers: tenants report issues by text, photo or voice note, and the system runs intake, collects contractor quotes, schedules visits and requests payment
- Engineered a Postgres-backed job queue (retries, dead-letter, per-conversation ordering, deduplication) and a 13-state ticket lifecycle with a full audit trail
- Wrote 400+ automated tests across 22,000+ lines of Python; deployed the web service and background worker on Render

Hotel Robot Operating System

- Built a hotel operations system that dispatches delivery and logistics robots, coordinates elevator rides and takes requests from the property management system (PMS)

DawnGTM | *AI agents, Google Cloud Run, Firebase*

- Built an agentic outbound email platform that researches leads, drafts personalized emails, handles replies and schedules follow-ups; deployed on Google Cloud Run and Firebase Hosting

EXPERIENCE

FlowTransit, Tel Aviv, Israel Jul 2026 – Sep 2026
Intern

- Improved GTFS and OpenStreetMap preprocessing so complete intracity bus lines are kept whenever any segment crosses a selected area, using map matching and network edge processing
- Researched transit-agency customers, competitors and market size to shape product positioning and go-to-market

Formula Student Technion, Haifa, Israel Oct 2023 – Apr 2024
High Voltage Engineer

- Co-designed a new high-voltage accumulator for the race car from scratch in SolidWorks, managing files in Kenesto and tasks in monday.com

TAMID Group (student consulting), Technion chapter | *Co-Founder and Co-President* Jul 2023 – Jul 2024