



Yehiel Dahan

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[Portfolio Link](#)



[My Patents](#)

43, Married +3
Moreshet, IL,
(Lower Galilee)

Mechanical Engineering, Product Development, Process Optimizations, Business and Production Management

Production systems optimizations, and technical team leadership expert. Over 15 years of experience in engineering and design of complex mechanical systems. An entrepreneur with strong management skills and a solution-oriented, broad systematic approach for perusing goals. Proven track record in leading engineering teams, managing complex projects, and driving innovative CAD and AI-based technological solutions.

Professional Experience

CTO/CEO of the R&D company *Y.C.Y Technologies Ltd*,

2019 ~ 2026

- Direct management of the company's engineering team. Supervised, and orchestrated integrations with external experts, programmers, physicists, and scientists through all research and development projects of consumer products, industrial machinery, custom robotics, and industrial automation.
- Responsibilities included overseeing all internal production processes, mechanical and electrical assemblies, experiments and testing, manufacturing prototypes. CAD modelling, identifying issues and acquiring critical components, risk reductions, engineering and administrative planning, and management of all the company projects from start to finish.
- Representation of the company to customers, funding bodies, and investors. responsible for all marketing and sales aspects, drafting contracts and price proposals, raising funds, intellectual property, and hiring talents. led over 80 team projects, and 24 solo projects from inception to completion. Involved in research and adaptation to standards, experiment planning, theoretical proofs, and patenting.
- Specialised in mechatronics, robotics, advanced parametric design in SolidWorks and other software, manufacturing and assembly techniques, AI automations, 3D printing, SERVO automations, programming Arduino, PLC, and CNC controllers.

Co Founder and GM the startup "Global Turbulence"

2022 ~ 2024

- Led all research and development in the field of bladeless wind energy harvesting, from initial design - based on my patented inventions - through to the implementation of functional field tested prototypes.
- Initiated and oversaw all intellectual property processes, developed business plans and investment agreements, and led fundraising efforts. Represented the company and managed its relationships with international stakeholders.
- Through my efforts, the startup secured first place in several prestigious competitions and was selected for a highly acclaimed accelerator. We also secured a non-dilutive funding from Israel's Directorate of Defence Research & Development (DDR&D), investment from a major Israeli local authority, and a contract with Singapore's Ministry of Defence.

Tech Dev Manager & Co-Founder *WinGate – www.wingatesys.com*

2019 ~ 2025

- Based on my own patent protected invention, I conducted independent research and development of automatic Fan-Shaped entrance systems utilizing advanced parametric CAD techniques in the process. I built and tested full-scale prototypes, and oversaw all engineering and external expert teams assisting in conversion to serial production.
- Strategic planning for the serial production of complex machinery, providing solutions to the logistic, marketing, IP, and manufacturing departments. I was responsible of all business relations and global commercialization of the technology. The brand currently has licensed manufacturing partners and distributors in the USA and EU

CTO & Co Founder *Angel Eye Ltd*

2017 ~ 2020

- This startup was founded around a revolutionary algorithm I invented and developed for real-time detection of gunfire source, using a wearable device that can be integrated into the protective equipment of soldiers and police officers. My work won an award in a prestigious defence technology development competition at the Technion. I led the startup to raise funds and financial grants.
- I structured the company, raised funds, allocated partners and talents and led its intellectual property strategy. I established pilot initiatives to demonstrate the feasibility of the venture. The system evolved into a comprehensive smart battlefield management platform, but the startup was ultimately halted due to organizational reasons.

Freelance Mech Engineer & Production Systems Optimizations Expert

2012 ~ 2019

- At engineering development companies and product design firms, I worked as an external integrator embedded within engineering teams, helping recover stalled or over-budget projects. In this role, I implemented structured methodologies to bring organization and discipline to large teams, and introduced work procedures and CAD solutions that significantly improved engineering department productivity while preventing costly errors and reworks.
- At manufacturing plants, I conducted reviews of production systems and their supporting infrastructure to identify failures and inefficiencies. I devised and implemented optimization solutions, integrating them into the production environments. My clients included major industrial organizations such as Yedioth Ahronoth, Mekorot, the global company AMPACET and many more.

Education

Technion – Israel Institute of Technology, Haifa

B.Sc. in Mechanical Engineering (Incomplete)

Bronitza Entrepreneurship Center – Technion – Israel Institute of Technology, Haifa

Specialization in Intellectual Property and Entrepreneurship

CORE SKILLS & AREAS OF EXPERTISE

Management & Leadership

- Strategic, business, and organizational planning
- Project management, team building, and cross-functional leadership
- Process improvement and organizational implementation
- Financial planning, pricing, and budget management
- Risk management and problem solving
- Negotiation, stakeholder communication, and representation
- Development and implementation of operational procedures
- Excellent interpersonal, leadership, and teamwork skills

Engineering & Technical Expertise

- Mechanical engineering, product development, and prototyping
- Manufacturing process development and optimization
- Industrial systems analysis, maintenance, and predictive failure detection
- Quality assurance, standards, and regulatory compliance
- Complex project and tender analysis; translating requirements into actionable engineering tasks
- Mechanical and electrical systems integration and assembly
- Advanced SOLIDWORKS design and 3D CAD
- Machining, manufacturing technologies, and production-line integration
- Robotics, automation, and industrial systems

Technology & Software

- Exceptional proficiency in SOLIDWORKS
- Advanced 3D printing and rapid prototyping
- Arduino and PLC programming
- AI implementation for process optimization and workflow automation
- Strong proficiency with Windows-based PC systems and a broad range of engineering and productivity software
- Electrical systems and controls
- Fluent technical English, including academic and technical writing