

About **DANRAZ**

DanRaz Ltd. is a privately owned company that offers a full range of multi-disciplinary engineering, planning, consultancy and support services for complex product development projects that demand innovative solutions.

Established by Mr. Dan Raz in 1977, the Company now has a highly talented and well-integrated team with over 400 man-years of engineering and design experience.

DanRaz Ltd. has successfully completed hundreds of projects, and has a proven track record in creating new products or improving existing products for leading industrial companies and start-ups.

DanRaz excels in the development of customized, original, elegant, reliable and cost-effective solutions from product conceptualization through to full production.

The Company is based near Haifa, Israel and offers its services to local and global companies.

What We Do

DanRaz' projects typically involve extreme performance requirements, tolerances or miniaturization constraints, which could involve super accurate measurements in nanometers or systems weighing hundreds of tons. These pose special problems requiring sophisticated technological solutions that can be attained only through a combination of expertise, professionalism and a high level of creativity.

DanRaz' projects range in scope from relatively small-scale, application-specific, well-defined, focused product design, analysis, modeling and product engineering – all the way up to fully-integrated, turnkey, hardware/software solutions involving product conceptualization, development, prototype-building, testing and production.

DanRaz has successfully developed many new products that have provided the basis for the establishment of new companies. Products developed by DanRaz have been sold in scores of countries worldwide; generating combined accumulated revenues and profits for their manufacturers that now run into hundreds of millions of dollars.

DanRaz Capabilities

DanRaz has a highly experienced team of specialists in Mechanical, Electronic and Aeronautical Engineering, Algorithms and Software Development, Plastics, Industrial Design and Project Management.

DanRaz' experience covers medical instrumentation, semiconductor production equipment, automobile components, heavy duty industrial manufacturing equipment, storage and handling systems, office furniture, agricultural equipment and other sectors.

Scores of DanRaz' innovative solutions have been registered as international patents, and some currently serve as the core technology of leading international companies.

DanRaz has capabilities and expertise in customization, automation, miniaturization, process modeling, simulation, mock-up and prototype development, assembly, experimenting, testing and integration in the following domains:

- Mechanics
- Robotics
- Dynamics
- Kinematics
- Electronics
- Motion systems
- Opto-mechanics
- Pneumatics
- Hydraulics
- Special purpose software
- Industrial design
- Strain and strength analysis
- Algorithm development
- Flow analysis
- Heat transfer
- Plastics and polymers
- Precision injection
- Adhesion techniques

The Benefits of Outsourcing Product Development

An increasing number of corporate managers and start-up entrepreneurs appreciate the benefits to be gained by outsourcing product development functions:

- Original solutions based on accumulated experience and creativity
- Immediate access to an established, multidisciplinary development team with a proven record of success
- Earlier start to engineering projects
- Faster Time To Market
- Reduced need to find and hire technology specialists
- Reduced manpower payroll requirements and lower overheads
- Allocation of the optimal number of people at each stage of the development process
- Avoid redundancy of development engineers at the end of projects

DanRaz Advantages

The basis of DanRaz' success is the incomparable experience, quality, talent and inventiveness of its people. This gives the company the following advantages:

- Dedication to excellence and getting it right first time
- Unique solutions
- Focus on cost-effective solutions
- Accumulation of expertise combined with original thinking
- Highly competent in adapting capabilities to clients' needs and wants
- Commitment to completion of every project to the customer's satisfaction
- Fast start-up and project work by established, well-integrated teams
- Large multi-disciplinary group of experts that can be flexibly allocated to meet project needs
- Disciplined project management and administration
- Operation according to strict internal standards, acceptable international standards and client's own procedures
- Full cooperation and coordination with the client
- Working as an independent team, or as an integral part of the client's engineering team
- Working within tight timetables

The Way DanRaz works

Every DanRaz project is managed by a highly experienced Senior Team Leader who is responsible for gaining a thorough understanding of the client's needs, forming the ideal multi-disciplinary task force, milestone planning, progress reports, client coordination, meetings and ensuring ultimate project success.

Each Team Leader is supported by a forum of senior engineers, budget and project admin staff, and also by the company's General Manager, Mr. Dan Raz - who contributes his own knowledge, personal touch and vast experience to every project.

DanRaz' major projects have included the following stages (depending on the particular project):

Problem analysis

Proposal of alternative solutions

Choice of preferred solution

Demonstration of feasibility

Product specification

Establishment of Project Plan

Conceptual design

Simulations and analysis

Mock-up building

Detailed design

Building engineering prototype

Alpha testing

Evaluation of reliability, manufacturability, serviceability and costs

Pilot production

Beta testing

Production file

Engineering support and training

DanRaz Confidentiality

DanRaz has a fundamental article of faith to preserve the secrecy of its clients' projects, technologies, products and intellectual property.

DanRaz takes all possible steps to avoid any conflicts of interest between its clients.

DanRaz has its own NDA agreements, or can work within the client's framework.

DanRaz has never faced a single customer claim after over 20 years and hundreds of projects.

DanRaz' clients rest assured that their vital interests and proprietary knowledge remain protected.

DanRaz Projects

Since 1977 DanRaz has completed hundreds of product development projects to the client's satisfaction.

DanRaz' projects include the following:

- Wheelchair for handicapped people
- Semiconductor wafer cleaning equipment
- Semiconductor wafer handling systems
- Semiconductor test equipment
- Blast impulse modeling and analysis
- Photolithography systems analysis
- Stitching equipment for Minimal Invasive Surgery
- Metal Forging mold replacement equipment
- Movable trolley for handling and loading
- Air Spindles for Micro-motion systems
- Spare wheel hoist for Sports Utility Vehicles
- Encapsulated camera for Gastro Intestinal Diagnosis
- CT assemblies and measuring equipment
- Bonding capillary manufacturing equipment
- Blast protection doors
- Piezzo-electrical motor casing
- Smart Card programming and test equipment
- Non-contact 3D inspection devices
- Ship-borne watertight structural equipment
- Modular, computer-ready office furniture
- Protective doors and windows
- Pharmaceutical production equipment
- Drip irrigation equipment
- Laser-texturizing machine
- Watertight communication equipment
- Body massage device
- Car roof opening/closing equipment
- Egg hatching equipment
- Zinc-Air battery packaging