

## Curriculum Vitae

**Name:** Arik Polak

**Date of birth:** 5 April 1967

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### Education

1993-1997 **Technion Israel Institute of Technology**, B.Sc. Civil Engineering, major in construction and transportation management

### Experience

#### Since 01/13

- **01/13-current – Etgar Engineering and Consulting Ltd.** – management and supervision, partner

#### Since 2012

- Managing and supervising construction of the Akko-Carmiel line for **Netivei Israel** - National Transport Infrastructure Company Ltd. (2011-2017). A 22-km line from Haifa to Beit She'an, including laying the double tracks, signals, and communications, constructing energy buildings and electromechanical equipment in Gilon Tunnel. Project cost – NIS 700 million.
- Managing and supervising bicycle paths for Atarim Ltd. in Tel Aviv

#### 2011-2012

- Ben Gurion Airport taxiways upgrade project for the Israel Airports Authority
  - Upgrading airport taxiways and building new ones. Project cost – NIS 150 million
- Bicycle paths for the Herbert Samuel Promenade in Tel Aviv for the Local Government Economic Services of the Local Authority Ltd.

#### 2010-2011 **Netivei Israel** – Central District maintenance projects management

- Maintenance of road accessories
- Maintenance of road equipment
- Maintenance of road structures

The project management includes the three disciplines mentioned above across 2,400 km of roads in the Central District. The work was undertaken through 11 contractor contracts for the different disciplines. The project management includes a 30-person team of supervisors, discipline coordinators, performance coordinator, accountants, work plans and work permits applications coordinator on the basis of traffic and office charts.

- Supervising work carried out in the district
- Preparing quantitative statements for project contract tenders
- Drawing up weekly, quarterly, and annual work plans, citing the location of the work, degree of urgency, estimated cost, and applications for work licenses
- Managing tenders for contractors
- Overseeing budgets and contracts including the sending of regular reports

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- Verifying that the client's quality assurance and safety demands are met
  - Approving invoices of a project's planners, consultants and contractors
- Project cost – NIS 100 million.

**2008-2009**     **Project management for Dana Engineering, Moshe Dayan-Yoseftal railway section**  
Construction of the 3.5-km section of the new line between the Moshe Dayan and Yoseftal stations

The project's main work items were:

1. Preparation work, including waste removal, dismantling, demolishing and removing various concrete buildings, uprooting trees, earthworks, and infrastructure work for the tracks
2. Infrastructure work for the track signals and communications lines
3. Drainage work
4. Concrete work on buildings, including:
  - Reinforced concrete work on the casing walls, acoustic walls, NJ walls, and coating of the existing casing walls, including completion of the acoustic reinforcement
  - Slurry walls
  - Concrete channels and drainage facilities
  - Concrete flooring
  - Sealing
5. Ground anchors in the support walls, some of which are in standing water
6. Electromechanical equipment work for the pumping station
7. Construction of the Komemiyut Station for embarking and disembarking passengers

The station work included:

- A 1,400-sq.m. passenger hall
- Two 550-m. platforms
- A conventional building with external aluminum stone finishing
- A station with controlled and uncontrolled public spaces and station operation functions, including sanitary facilities, electricity and low tension systems, elevators and escalators, and air conditioning
- Infrastructure work, including preparation, dismantling, earthworks, construction, gravel layer, drainage, water, and sewage systems, and fencing.

Project cost – NIS 120 million

**2006-2008**     **Project management for Dana Engineering, Rabin-Moshe Dayan railway line section**

1. Addition of a third lane along 700 meters of the Ayalon Highway
  - Earthworks, construction, infrastructures, and paving
  - Moving and deepening the existing infrastructures
  - Concrete work, including support walls and New Jersey safety barriers
  - Shoulder stones, channel, and flooring
  - Traffic control and lighting infrastructure

- Acoustic walls and landscape rehabilitation
- Temporary traffic arrangements during construction, safety accessories, traffic lights, and painting
- Overhead signs and controls
- 2. A 600-railway tunnel
  - Water, sewage, and drainage work, including a poured concrete channel
  - Tunneling and building construction
    - ✓ Constructing an open pit
    - ✓ Digging a tunnel by cut and cover method, using slurry walls and posts and laying tensioned girders
    - ✓ Construction of a pump house and escape shafts
    - ✓ Construction of concrete support walls
  - Sealing
  - Carpentry, welding, plastering, painting, and stone coating of the buildings
  - Construction of electrical systems for the planned buildings, grounding the buildings, and diverting cable TV lines
- 3. Concrete rainwater drainage pumping station, including an underground water tank 21 meters across and 15 meters deep
 

The floor and ceiling are made of round concrete plates, the walls are made from solid slurry walls, and between the slurry walls and over the roof are pump rooms, a stairwell, and electricity room.

The work included development of the station yard, a perimeter fence and gate, construction and paving, and preparation work for the cables and underground pipes.

Project cost – NIS 100 million

**2006-current Project manager at the Tel Aviv-Jaffa Municipality, Aviv Roads Department**

The work includes project coordination between all the parties in the planning stage, assistance in obtaining a project license, collation, oversight, and opinions on the specifications and statements of quantities, the tender, writing the contract's technical chapter, setting the project budget structure, coordinating the construction, close direct oversight of the project, checking and approving the interim and final invoices.

Main types of projects: city streets and sidewalk

Project cost – NIS 10 million

**2004-2006 Project manager at Ashtrom Group, Wallenberg-Sheetrit-Pinhas Rosen Street underpass**

Main types of work:

- Underground water and drainage pipes, diverting existing pipes, and building new ones
- Construction of electrical, lighting, communications, and traffic light conduits
- Temporary traffic arrangements during the project
- Setting and pouring the drilling posts (stabilizing the drilling walls with Bentonite for the underpass and pump station)

- Stone covering
- Solid concrete work on site for the lanes, casing walls, support walls, beams and straps, manholes, and the pump house.
- Paving temporary detour lanes during the project, and the final lanes and intersection
- Flooring, parking bays, sidewalks, and shoulder stones
- Welding for the manufacture and assembly of steel guardrails
- Aluminum work
- Painting
- Construction of the drainage pump house, including an emergency generator, pumps, and automated control
- Construction of an upper lighting facility and lighting of the underpass
- Construction of the overhead signs
- Landscaping and land restoration

Project cost – NIS 40 million

2001-2003 **Infrastructure project manager, Camp 81 Shomeria and Paratroopers Training Base 35, built by the Minrav Solel Boneh consortium under the US Army Corps of Engineers**

The project included working with the American supervisory team, the client (the Ministry of Defense and the IDF Construction Center) the project planners, the authorities, subcontractors, suppliers, and the work crew

The project also included preparing bills, price analysis, preparing balance sheets, budget control, preparing statements of quantities, contracts, and tenders, negotiating with subcontractors, preparing schedules, quantities calculations, and performance management.

Project cost – \$16.5 million

1999-2001 **Project management at Ashtrom Group subsidiary, Drachim Building and Development Ltd.**

- Ayalon East (Hatikva Interchange) – Em Hamoshava-Gissin section
- Chel Ha'shiron Interchange
- Moshav Neve Yerek
- Annual contract – Netivei Ayalon: maintenance, repairs, and road resurfacing

1997-1999 **Samuel Levy Ltd., construction engineer, specializing in road and infrastructures in South America**

- Roads and infrastructures projects engineer for the Santiago- Chile Municipality
- Earthworks, roads and infrastructures projects engineer for industrial buildings

**Military service**

1988-current IDF reserve duty as a tank battalion commander

1985-1988 IDF Armored Corps, combat service as a tank commander, Armored Corps School trainer, company sergeant major

**Computer skills**

Proficient in MS Project, Autocad, Office, Windows

Proficient with Binarit - software for the construction industry, Ramdor, Benafar

**Languages**

Hebrew – mother tongue

English – fluent reading, writing, and verbal

Spanish – semi-fluent reading, writing, and verbal

**Recommendations**

1. Dan Holzman, Dana Engineering
2. Eli Nakar, CEO, Netivei Ayalon
3. Shay Moran, Roads and Lighting Branch Manager, Tel Aviv-Jaffa Municipality