

## Alex Xxxxx

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### SKILLS

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- AutoCAD, Civil 3D, AutoTURN, IDAN, MATLAB, MS Office
- Geometric design of integrated and sustainable roads & railways
- Diversified knowledge & innovative approach
- Solving unconventional problems

### RAILWAY/ROAD TRANSPORTATION CIVIL ENGINEER

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Results driven engineer with 2+ years of experience in Highway/Road and Railway design. Dynamic client-centric engineer guided by consideration for environmental impact, safety and quality of life. Collaborative communicator skilled in working on multiple projects while delivering work on time and on budget, and adjusting to shifting priorities. Establish excellent working relationships within multi-disciplinary design team, comply with construction and design standards and local requirements.

### EXPERIENCE

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#### HASSON YERUSHALMY: CIVIL ENGINEERING PLANNING FIRM, Tel-Aviv, Israel

02/2014-08/2016

Leading firm contracted by public institutions such as the Israeli Highway Administration, Departments of Transportation, Defense, Construction & Housing. Providing services for design-bid-build highways, roads and railways, and design-build highway projects. <http://www.hj-eng.co.il/Profile.aspx>

#### *Highway/Road and Railway Design Engineer*

Responsible for all aspects of the road/highway/railway design process, prepared technical specifications in bid packages.

### PROJECT HIGHLIGHTS

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- **High-speed Railway 25 miles (Lod)** – *Part of the biggest transportation infrastructure project in Israel involving construction of 25 mile railway, 10 railway bridges, 2 passenger stations, 14 railway tunnels, 4 grade separations, 10 agricultural crossings and more than 40 culverts; budget ~\$1.0B, planned to be constructed in 2027.*
  - The only entry-level engineer promoted to join a multi-disciplinary team of 50 engineers/architects from 12 different offices.
  - Delivered the most cost effective geometric design of the railway in congested metropolitan environment. Mitigated multiple utility and infrastructure conflicts resulting in approval by Department of Transportation.
- **Freight Cargo Rail Terminal (Afula)** – *connecting 11 miles of new railway track to an existing track; budget ~\$125M.*
  - Saved struggling design from a different firm by designing alternative railway route which resolved difficult topography with elevation difference of 40 yard and slope of 1.3% allowing correct train switch placement.
- **Freight Cargo Rail Terminal (Vitkin)** - *25 acre cargo terminal for the Israel Railways Company; budget \$3.5M.*
  - Designed new asphalt surface and storm water drainage system for truck-rail-truck terminal. Involved in client meetings, schedule planning, materials' quantity calculations and preparation of technical specifications.
- **New neighborhood roads (Tzur Hadassah)** - *700 housing units and connection road to existing highway, 2 miles.*
  - Achieved savings of \$1.25M by optimization of cut/fill earthwork factors in steep terrain with elevation differences of 80ft while minimizing nuisance factors to the neighborhood.
- **Highway expansion (Highway #375)** - *two lane to four interstate-style lane widening.*
  - Resolved safety hazards due to high degree of road curvature, insufficient sight distance and steep slope topography. Advanced the project from Schematic Design (SD) to Preliminary Design (PD).
- **Road upgrade (Dalton)** - *one mile segment in an industrial business zone; budget \$1.6M.*
  - Re-designed road, intersection, storm water drainage while improving accessibility for pedestrians. Completed the project on-time and on-budget.
- Developed criteria, assessed quality and recommended company software upgrade from IDAN to AutoCAD Civil 3D. Developed training program and trained employees, saving \$50K in outsourced training.

## EDUCATION

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**ARIEL UNIVERSITY**, Ariel, Israel

2010-2014

*BS in Civil Engineering, Structural Design and Construction Management*

Graduated in top 10%

## PROFESSIONAL DEVELOPMENT/TRAINING

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**NATIONAL TRANSPORT INFRASTRUCTURE COMPANY (NETIVEI ISRAEL), Israel**

Courses:

“Statutory and Road Right Issues”

3 months, 40 hours - 2015

“Railway Engineering Design, Construction and Operation”

2 months, 22 hours - 2014