

**Alexander K.**

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**HIGHWAY/ROAD/RAILWAY TRANSPORTATION CIVIL ENGINEER**

Results driven creative engineer guided by consideration for environmental impact and safety. Experienced in roadway improvement and re-alignment, highways infrastructure and drainage design, adhering to local, state and federal standards.

*Build strong working relationship and excel at collaborating with clients, contractors, communities and government agencies to meet and exceed quality, timeline and budget expectations.*

**Tools: AutoCAD, MicroStation SS4, Civil 3D, AutoTURN, IDAN, MATLAB**

**Client: American Center for Mobility**

- **Test Track facility with two super-elevated turnarounds on the airport, 1.4 miles**
- **Site construction of Connected & Autonomous Vehicles (CAV) facility, 350 acres**

**High-speed Railway, 25 miles (Lod railroad detour); Part of the biggest transportation infrastructure project in Israel; budget ~\$1.0B**

**ENGINEER II: PROJECT ENGINEER AND ROADWAY DESIGN at THE MANNIK & SMITH GROUP, INC., DETROIT, MI**

January 2017 – May 2018

*Top 500 Design Firm in USA; civil engineering, transportation, geotechnical, architectural & environmental consulting.*

Part of a group conducting integrated planning, engineering, and program development. Responsible for roadway designs concept-to-completion, including feasibility assessments & cost estimates in private and public sectors in complex and high-profile transportation projects.

**Highlights:**

- Worked cross-functionally with two Counties, Airport management and Michigan Department of Transportation (MDOT) ensuring design compliance with Federal Aviation Administration (FAA) restrictions.
- Provided solution while working in difficult site conditions and under very restrictive FAA codes, exceeded by 22% the length of the straightaway by complete re-design of the original turnaround orientation.
- Assisted in urgent CAV construction project, including site development, utilities (gas, electrical and ITS) design, and temporary access road.

**HIGHWAY/ROAD AND RAILWAY DESIGN ENGINEER at HASSON YERUSHALMY: CIVIL ENGINEERING PANNING FIRM, TEL-AVIV, ISRAEL**

February 2014 – August 2016

Responsible for conceptual and detailed design alternatives, analysis and feasibility; prepared technical specifications in bids. Recommended software upgrade, developed training program and trained employees, saving \$50K in outsourced training.

**Highlights:**

- Promoted to join a multi-disciplinary team of 50 engineers/architects from 12 different companies.
- Delivered the most cost effective geometric design of the railway in congested metropolitan environment. Mitigated multiple utility and

**Freight Cargo Railroad Terminals (Afula & Vitkin) – connecting 11 miles of new railway track to an existing track; budget ~\$125M**

**New neighborhood roads (Tzur Hadassah) - 700 housing units and connection road to existing highway, 2 miles**

- infrastructure conflicts resulting in approval by Department of Transportation
- 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.
  - 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.
  - 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.
  - Re-designed road, intersection and water drainage while improving accessibility for pedestrians; completed project on-time and on-budget.
  - Resolved safety hazards due to high degree of road curvature, insufficient sight distance and steep slope topography.

## EDUCATION

**Bachelor of Science in Civil Engineering, Structural Design and Construction Management** from Israeli Institute of Technology - Technion, Haifa, Israel. Graduated in top 10%.

## KEY SKILLS

Rail track infrastructure  
 Urban roads & highways design  
 Site development  
 Contractors' coordination  
 Cost estimation  
 Bids & proposals preparation  
 Project management  
 Sustainable design

Environmental impact analysis  
 Traffic safety improvement  
 Compliance with environmental regulations  
 Transportation scenarios modeling  
 Excellent idea-sharing  
 Collaboration on multi-discipline projects  
 Creative and "outside the box" thinking  
 Communication on all levels, internal & external