

RIZA HUSMEN

Senior Electrical Engineer

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Objective:

As a Senior Electrical Engineer, I aim to use my technical knowledge and experience to manage projects across the design, manufacturing, construction, maintenance, and commissioning phases in the railway sector.

SUMMARY STATEMENT

Senior Electrical Engineer, 24 years of experience in railway systems, mostly worked on project designs and approvals, field implementations, tests and commissioning phases of Signalling, Traction Power and OCS Electrification Systems.

Project management experiences in 3 railway consulting companies, such as;

1. CBTC-ETCS Signalling System Manager and Overhead Catenary System-Traction Project Manager at **Avrasya Consult JV** (Yuksel Project International, of Marmaray Commuter Rail Project in Istanbul)
2. Electromechanical Control Chief (Izmir Metro Bornova Extension Project, **Eser Consultancy & Engineering Inc.**),
3. Site Supervision Engineer (BursaRay, Yapi-ICF Kaiser Inc.).

Working experiences in 2 railway contractor companies, such as;

1. Electrification System Engineer (Estram, **Bombardier Transportation**),
2. Overhead Catenary and Traction System Manager (Ankara- Eskisehir High Speed Railway Project, **Alarko Inc.**)

EXPERTISE

- Signalling Systems (ETCS, CBTC)
- Traction Power Systems
- Overhead Catenary Systems
- Stray Current, Grounding and EMC

EDUCATION

Sep 1973 - Oct 1978

B.Sc in Electrical Engineering
YILDIZ Technical University (IDMMA), Istanbul, Türkiye

LANGUAGE SKILLS

English

French

Turkish

Membership of Professional Association

Chamber of Electrical Engineers, Istanbul Branch

EMPLOYMENT

Jan 2022 - present

Independent Railway Electromechanic Systems Expert
Istanbul, Türkiye

Independent expert for electromechanics systems (telecommunication, signalling, electrification) for Cerkezkoy-Istanbul High Speed Railway Project

Dec 2018 - Nov 2021

Consultant / Electromechanical Systems Manager
MOTT MACDONALD, Edirne, Türkiye

Telecommunication, signaling and electrification systems, construction and tender evaluation and reporting to European Union Delegation in Ankara, Turkey.

Project:

Kapikule - Cerkezkoy High Speed Railway Project

Project Features:

156 km double track route and maintenance shops, ETCS L1 signalling system, 2x25kVac overhead catenary system.

Dec 2008 - Sep 2020

Signaling System, OCS and Traction Power System Project Manager

AVRASYACONSULT JV (Yüksel Project International), Istanbul, Türkiye

CBTC-ETCS Signalling System Management and Overhead Catenary-Traction System Project Management

Project:

Marmaray; Commuter Railway and Bosphorus Tube Tunnel Project

Total project railway length of 3x76 km, plus 3 maintenance and depot areas, Bosphorus underground tunnel of 13 km, crossing between European and Asian side of Istanbul. The project was under FIDIC (Yellow Book- design and built) condition of contract. It was officially a rehabilitation project but whole system was completely reconstructed for all systems.

Duties as follow:

- Structuring and preparation of technical specs and definitions of work/ tender packages, and implementation and procurement strategy for signalling systems and 25 kVAC overhead catenary system (OCS) and other functional requirements; including consideration of operational requirements as an integral part of the design.
- Contributing in tender and award of construction services; controlling of subcontractors for design and construction; monitoring technical project management of entire projects in the fields of signalling, catenary systems and Traction Power System of Marmaray from design to implementation and commissioning phases.
- Preparation of decisions regarding the allocation of work packages in cooperation with procurement team, along with the coordination of both internal and external design services.
- Ensuring project success regarding content, costs, quality and time.
- 6 totally renewed 25 kV traction power traction substation, construction completed.

Project Features;

The Marmaray project provides an upgrading of the commuter railway system in Istanbul, Turkey, connecting Halkalı on the European side to Gebze on the Asian side with an uninterrupted, modern, high- capacity commuter railway system. Tracks in both sides are connected through a railway tube tunnel of 13 km under the Istanbul Bosphorus.

Mar 2007 - Dec 2008

Electromechanical Control Chief

ESER CONSULTING & ENGINEERING INC., Izmir, Türkiye

Consultancy works

Project:

Izmir Subway Project

3rd Stage, Level 1 Extension Project, between Bornova Hospital and Bornova City Centre

Duties as follow:

- Signaling system design, approval and implementations, integration processes to the current system,
- 750 Vdc 3rd rail traction system and traction substations construction and electrification works,
- Telecommunication (phone, radio, CCTV, PA system, fiber optical transmission system, passenger information system, central clock system, fire alarm system, fare collection system)
- LV Power and lighting systems,
- Stray current prevention measures and grounding applications, SCADA, UPS and emergency power backup systems,
- Project control, approval, implementation, test and commissioning of above-mentioned systems.

- Oct 2005 - Feb 2007**
- Electrification System Engineer**
ALARKO INC., Eskisehir, Türkiye
25 kVac overhead catenary and traction system manager for site installation and commissioning works.
- Project:**
Ankara-Istanbul High Speed Railway Project Stage 1, Eskisehir Zone (90 km)
- Duties as follow;**
- Project implementation, test and commissioning processes, installation of traction power substations and overhead catenary poles, foundations, cantilever equipment, earthing, messenger and contact wires, counterweights, section posts, feeders, return cables, etc.
- Oct 2003 - Sep 2005**
- Electrification System Engineer**
BOMBARDIER TRANSPORTATION, Eskisehir, Türkiye
Traction substations constructions and 750 Vdc catenary project implementation, test and commissioning processes.
- Project:**
Estram Light Rail Train Project
- Duties as follow:**
- Project implementation, test and commissioning works of the power substation equipment installation, pole erections, cantilevers, messenger and contact wires installation, feeders and return cables laying, stray current prevention measures and grounding applications.
- May 1998 - Sep 2003**
- Site Supervision Engineer**
YAPI-ICF KAISER ENGINEERING AND CONSULTANCY INC., Bursa, Türkiye
- Project:**
BursaRay Light Rail Train Project
- Duties as follow:**
- 1500 Vdc traction and overhead catenary system, site supervision, document control and commissioning works,
 - Lighting of the stations, operation center, traction substations, Stray current prevention measures and grounding applications, LV and MV power systems applications,
 - Radio, phone, CCTV, fire alarm, PA, fiber optical transmission systems,
 - Project control, approval, implementation, test and commissioning of above systems
- Apr 1996 - May 1998**
- Production Manager**
EMKO ELECTRONICS INC., Bursa, Turkey
Management works of 50 technicians and engineers in the company that produces electronic temperature controllers, time controllers, generator control systems.
- Oct 1978 - Jan 1996**
- Electrical Engineer, from Lieutenant to Major ranked**
TURKISH AIR FORCE, Eskisehir, Turkey
Electrical Engineer in various duties and retired as a Major ranked on Jan 1996.
- Duties as follow:**
- Worked as Electronics Shops, Electronic Calibration Shops Chief and Production
 - Control Chief in 1.HIBM.K. (Air Force Logistics Center). Managed approximately 150 technicians and engineers.
 - Worked as Fighter Aircraft Flight Simulators Maintenance Officer under Eskisehir Aerospace Hospital Command.