

BAHAR OZTURK

Telecommunications Engineer | In-Building DAS & 5G Infrastructure Expert | Large-Scale Public Infrastructure Projects | Network Investment & Program Management | IEEE Member | MIET

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PROFESSIONAL SUMMARY

Telecommunications Engineer with 18 years of experience at Turkcell, Türkiye's leading mobile network operator, specializing in mobile network infrastructure, radio access networks, In-Building DAS systems, network investment management, and large-scale public infrastructure projects. Planned and managed more than 250 In-Building Solution (IBS) projects across Türkiye.

Recognized for leading nationwide communication infrastructure programs, multi-operator shared network initiatives, and strategic investments supporting airports, metro systems, hospitals, stadiums, industrial facilities, transportation corridors, and other critical public infrastructure.

Experienced in end-to-end planning, budgeting, deployment, optimization, stakeholder management, vendor management, and technology strategy for 3G, 4G, and 5G networks.

Served as technical lead, trainer, and subject matter expert for In-Building Solutions (IBS), DAS design, PIM testing methodologies, and network quality improvement programs.

CORE EXPERTISE

- In-Building DAS (Passive & Active)
- Multi-Operator Shared Infrastructure
- 4G / 5G Network Deployment
- Radio Network Planning & Optimization
- Network Investment Strategy
- CAPEX & Budget Management
- Public Infrastructure Communications

- Airport Communication Systems
- Metro Communication Systems
- Railway Coverage Solutions
- Stakeholder Management
- Vendor & Contractor Management
- Program Management
- Network Performance Optimization
- iBwave Design
- PIM Testing & RF Troubleshooting
- Network Rollout Programs
- Data Analytics & Python
- Computer Vision & AI Applications

Turkcell

Senior Specialist – In-Building Solutions & Infrastructure Sharing

2020 – 2025

Lead end-to-end planning, investment management, deployment, activation, and optimization activities for nationwide In-Building Solutions (IBS) and multi-operator shared infrastructure programs.

Key Achievements

- Planned and managed more than **250 In-Building Solution (IBS) projects** across Türkiye, supporting mobile network expansion and large-scale public infrastructure investments.
- Led and coordinated **multi-operator shared communication infrastructure programs** for major national projects, including Istanbul Airport, Gayrettepe–Istanbul Airport Metro, Istanbul Airport–Halkalı Metro, Gebze–Darıca Metro, TOGG Electric Vehicle Manufacturing Facility, hospitals, stadiums, and transportation hubs.
- Managed annual **IBS investment planning, CAPEX budgeting, and resource allocation** for nationwide deployment programs.
- Directed **vendor, contractor, operator, and stakeholder coordination** throughout project planning, implementation, and acceptance phases.

- Led **5G-ready IBS strategy development**, infrastructure modernization initiatives, and rollout preparation activities.
- Prepared technical specifications and **RFP frameworks** for Active DAS, Small Cell, and next-generation in-building communication solutions.
- Conducted **proof-of-concept (PoC), validation, and acceptance testing** for Active DAS and Small Cell technologies.
- Delivered professional training programs on:
 - In-Building DAS Design
 - iBwave
 - Passive Intermodulation (PIM) Testing
 - Network Quality Optimization

Turkcell

Senior Specialist – Access Network Investment & Resource Management

2016 – 2020

Managed nationwide network investment planning, budgeting, resource allocation, and rollout governance programs supporting Turkcell's mobile and fixed network infrastructure.

Key Achievements

- Managed reporting and governance of network investments exceeding **400 million USD annually**.
- Led CAPEX planning, monitoring, and executive reporting.
- Managed nationwide rollout reporting and investment performance tracking.
- Prepared ROI evaluations for network expansion programs.
- Presented investment, rollout, and resource planning reports to executive leadership.
- Led regulatory reporting activities submitted to ICTA (BTK).
- Developed internal platforms including:
 - Budget Control Tool
 - Rollout Dashboard

- ROI System
- Network Investment Reporting Modules
- Applied Python and machine learning techniques to data analytics initiatives.

Turkcell

Image & Video Processing (Computer Vision) Project Assignment

2019

Selected through Turkcell's internal FLEXSourcing Program to contribute to a strategic computer vision initiative involving image processing, facial recognition, and AI-based identity verification technologies using Python.

Turkcell

Radio Network Planning & Optimization Engineer

2008 – 2016

Responsible for radio network planning, optimization, rollout support, and network performance management across multiple regions of Türkiye.

Key Achievements

- Planned and optimized GSM, UMTS, and LTE networks.
- Managed network deployment programs across:
 - Istanbul
 - Antalya
 - Konya
 - Karaman
 - Burdur
 - Aksaray
- Led capacity planning and network performance improvement initiatives.
- Delivered indoor coverage solutions using:
 - DAS
 - Repeater

- Femto
 - Pico
 - Small Cell technologies
- Performed drive testing and optimization activities.
- Conducted KPI analysis and cluster optimization.
- Managed rollout activities supporting nationwide 3G expansion.

Cukurova Generator

Power Systems Project Engineer

2007 – 2008

Supported design, planning, and implementation activities for industrial power systems, generator installations, and synchronization panel projects.

EDUCATION

Bahcesehir University

Master of Science (M.Sc.)
Engineering Management

2023

Antalya Bilim University

Master of Business Administration (MBA)

2015

Ege University

Bachelor of Science (B.Sc.)
Electrical & Electronics Engineering

2007

PROFESSIONAL MEMBERSHIPS

- Member of the Institution of Engineering and Technology (MIET)
- IEEE Member

TEACHING & KNOWLEDGE SHARING

Turkcell Academy – Technical Instructor

Delivered classroom and technical training programs for network engineering teams covering:

- In-Building DAS Design
- iBwave Design Tool
- PIM Testing Methodologies
- RF Optimization
- Network Quality Improvement

Training programs delivered across multiple Turkcell regional organizations.

VOLUNTEER EXPERIENCE

Volunteer Mathematics Instructor

Izmir Social Services and Child Protection Agency

Provided mathematics tutoring and academic support for children under state care, helping improve analytical skills and academic performance.

SELECTED TECHNICAL TRAINING

- Fundamentals of Artificial Intelligence
- Data Science (Johns Hopkins University)
- Python for Data Science Advanced
- Cisco Network Management
- LTE Performance Management & Optimization
- GSM & UMTS Network Analysis and Optimization
- Agile Business Management
- Advanced Project Management
- Big Data & Hadoop
- iBwave Design
- Strategic Planning & Strategic Projects