COMPANY PROFILE

ELECTRICAL
TELECOM
AVIATION SAFETY
AI & R&D



DOHA, QATAR
NEXAYT.COM
INFO@NEXAYT.COM
+974 7787 3712

INDEX

TABLE OF CONTENTS

Six chapters, from who we are to the projects we have delivered across Qatar.

01 ABOUT NEXAYT 03

02 POWER & ELECTRICAL 05

03 AVIATION & SAFETY 08

04 TELECOM & SMART SYSTEMS 12

05 AI, DIGITAL & R&D 15

06 SUPPLY & DELIVERY 19



DOHA · QATAR

ABOUT NEXAYT

WELCOME TO NEXAYT

NEXAYT for Technology and Trading brings power, communications and digital engineering under one roof. We serve utilities, airports, developers and government clients with turnkey solutions, and build every system ready for monitoring and automation.

6
Specialist divisions

12
Projects delivered

24/7
Support

SIX DIVISIONS. ONE COMPANY.

Each division has its own specialists, and every project has one point of contact from design to handover.

01

ELECTRICAL & POWER

Generators, MV/LV substations, ATS and MCC panels

02

AVIATION & SAFETY

Obstruction lights and heliports to QCAA and ICAO rules

03

TELECOMMUNICATIONS

Mobile 2G–5G, fibre, data centres, campus networks

04

SMART SYSTEMS

Design, integration and upkeep of building systems

05

AI & DIGITAL

Data, automation and software for smarter operations

06

R&D AND INNOVATION

Next-generation technologies developed in-house

CHAPTER 02

POWER & ELECTRICAL

Power systems and control panels built for critical loads, from utility substations to data centres.

P01 Substation Control Panels — 06

P02 ATS & Generator Changeover — 07





PROJECT 01 · QATAR

01

UTILITY NETWORK

SUBSTATION CONTROL PANELS

Design, assembly and commissioning of control and protection panels for a utility substation, with SCADA-ready interfaces and full factory and site acceptance testing.

Voltage	Integration	Testing
11 kV	**SCADA-ready**	**FAT / SAT**

02

CRITICAL LOADS · DATA CENTRE

ATS & GENERATOR CHANGEOVER

Automatic transfer and generator changeover for a mission-critical data centre, with remote monitoring of grid, generator and transfer status.

Rating	Transfer	Monitoring
Up to 2500 A	**Under 10 s**	**Remote, live**



PROJECT 02 · DOHA

CHAPTER 03

AVIATION & SAFETY

Airfield, heliport and obstruction lighting that keeps every structure visible to pilots, to QCAA and ICAO rules.

P03 Rooftop Heliport Lighting — 09

P04 Obstruction Lighting for Towers — 10

P05 Obstruction Lighting for Telecom Towers — 11





PROJECT 03 · DOHA

03

HELIPAD SYSTEMS

ROOFTOP HELIPORT LIGHTING

A complete lighting package for a rooftop heliport: LED inset lights, floodlighting, an illuminated wind cone and a central control panel with monitoring.

Perimeter	Touchdown	Control
Green LED	**White LED**	**Panel + monitor**

04

HIGH-RISE TOWERS

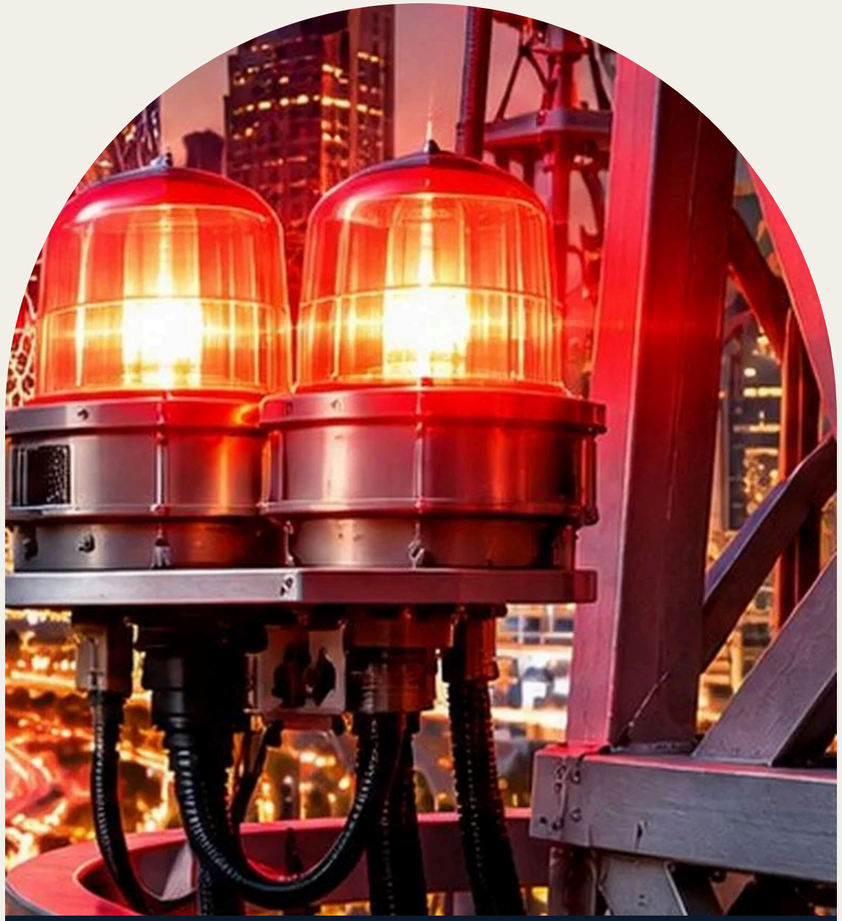
OBSTRUCTION LIGHTING FOR TOWERS

White flashing lights on the tower top and steady red lights at each level, supervised from one panel with battery backup, so the tower stays visible to pilots even in a power cut.

Top level	Day intensity	Intermediate
MI Type A	**20,000 cd**	**LI Type B**



PROJECT 04 · DOHA



PROJECT 05 · QATAR

05

TELECOM MASTS

TELECOM TOWER OBSTRUCTION LIGHTING

Red flashing lights on the mast top and steady red lights at each level, running on the site’s 48 VDC supply and reporting failures straight to the operator’s network operations centre.

Top level	Supply	Alarms
MI Type B	**48 VDC**	**To the NOC**

CHAPTER 04

TELECOM & SMART SYSTEMS

Networks for campuses and cities, and building systems brought together on one control platform.

P06 Campus Wireless Network — 13

P07 Smart Building Integration — 14





PROJECT 06 · QATAR

06

UNIVERSITY CAMPUS

CAMPUS WIRELESS NETWORK

A campus-wide Wi-Fi 6 network on a fibre backbone, serving students, staff, research and IoT devices from one centrally managed platform.

Access points	Standard	Backbone
1,200	**Wi-Fi 6**	**Fibre optic**

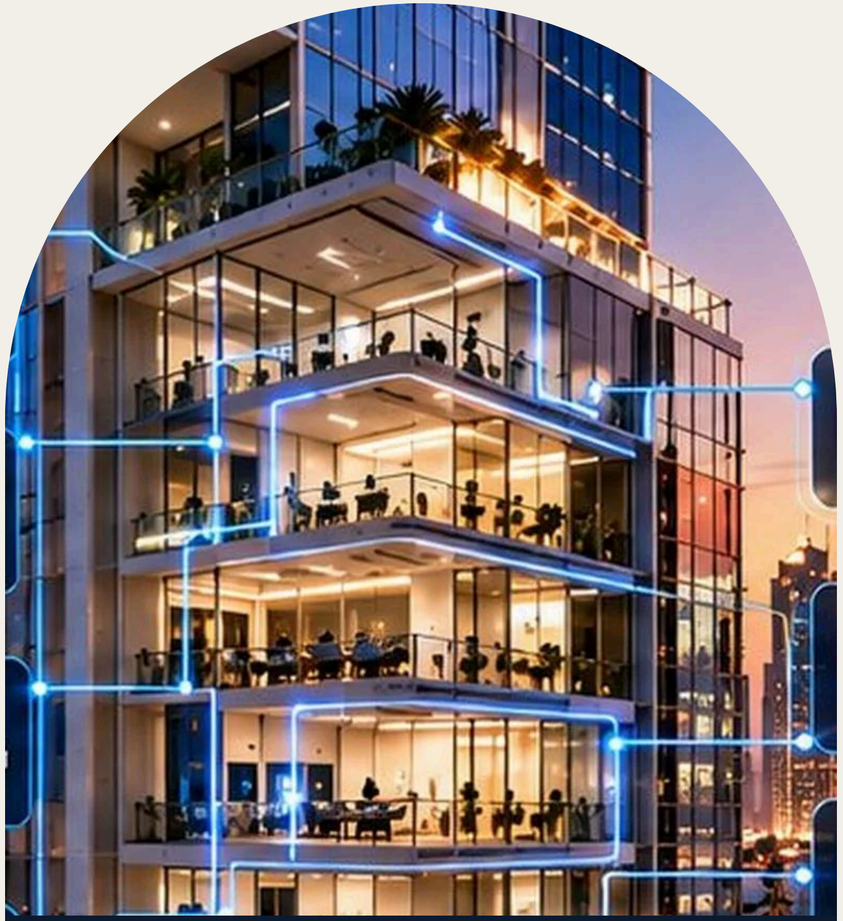
07

MIXED-USE TOWER

SMART BUILDING INTEGRATION

Integrated building systems for a mixed-use tower, bringing BMS, security, energy and life safety together on one control platform.

Platform	Security	Energy
Unified BMS	**Access + CCTV**	**Live metering**



PROJECT 07 · QATAR

CHAPTER 05

AI, DIGITAL & R&D

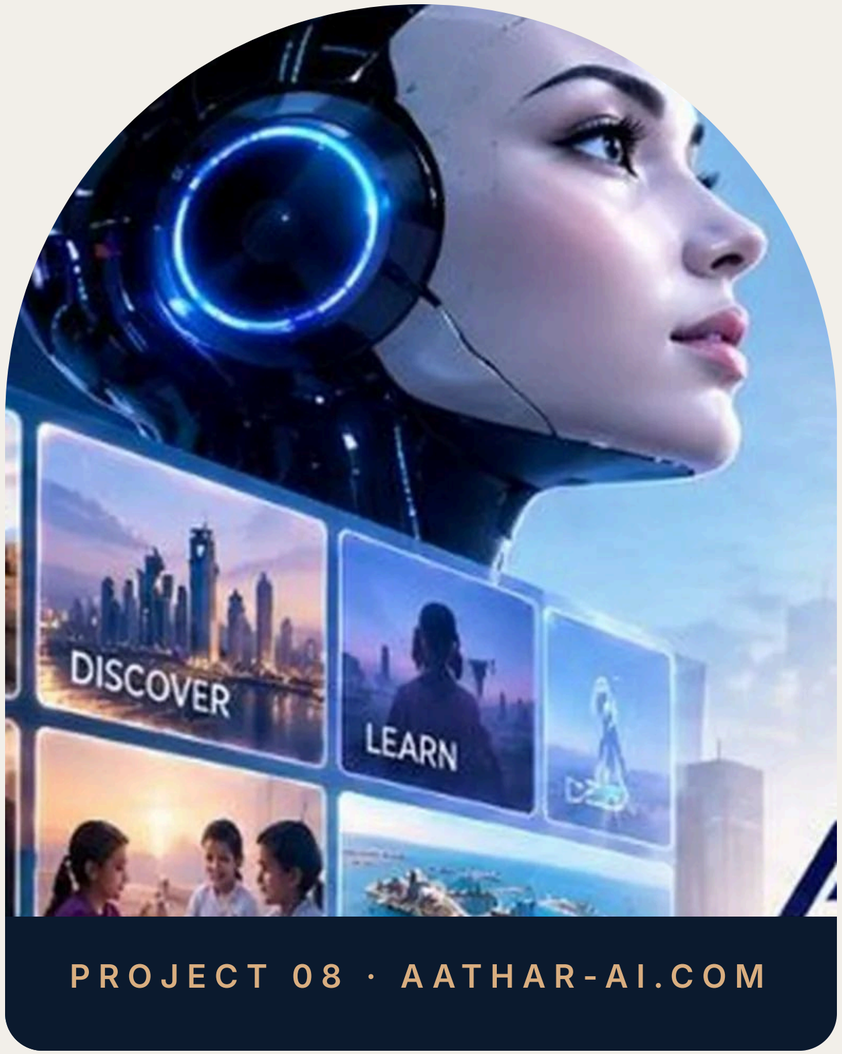
Software, data and in-house research that turn infrastructure into smart systems.

P08 AATHAR AI Platform — 16

P09 AI-Powered Traffic Light System — 17

P10 Solar-Powered Edge Node — 18





08

AI MARKETING STUDIO · QATAR

AATHAR AI PLATFORM

Website and AI content platform for AATHAR, a Qatari studio that turns ideas into copy, designs and videos, plus the AI-produced documentary film “The Bad Word”.

Scope	Languages	Film output
Web + AI film	**AR · EN · TR**	**4K**

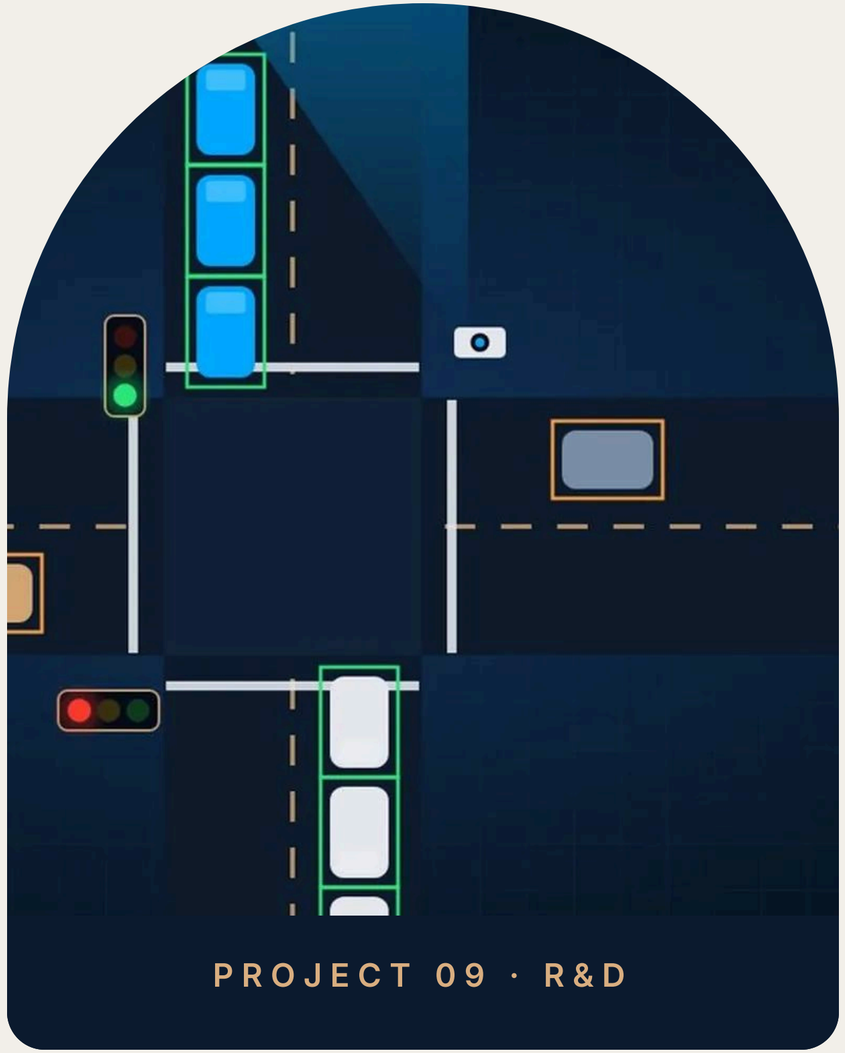
09

VIDEO PROCESSING RESEARCH

AI-POWERED TRAFFIC LIGHTS

Real-time traffic control that replaces fixed timers with video. Cameras count vehicles in each lane, and the busier direction gets green first, for longer, cutting waiting time and fuel use.

Hardware	Vision	Logic
Raspberry Pi	**OpenCV**	**Queue-based**



10



PROJECT 10 · R&D

OFF-GRID SMART INFRASTRUCTURE

SOLAR-POWERED EDGE NODE

A self-powered node that combines solar generation, LiFePO4 storage and edge computing to host small cells, CCTV, Wi-Fi and IoT sensors anywhere, on or off the grid.

Power	Network	Computing
Solar + LiFePO4	**5G · LoRaWAN**	**Edge AI**

CHAPTER 06

SUPPLY & DELIVERY

06

The brands we supply, how we take a project from survey to support, and how to reach us.

Products we supply — 20

How we deliver — 21

Contact — 22



PRODUCTS WE SUPPLY

LEADING BRANDS, DELIVERED

Drives, transfer switches, voltage regulators and aviation lights from the brands engineers trust, with free delivery across Qatar.

Order online at nexayt.com — datasheets for every product.

01 VARIABLE FREQUENCY DRIVES

ABB ACS180–ACH580 · Schneider ATV320 · Siemens V20, G120C, G120X

02 ATS AND MTS

Schneider TransferPacT · Socomec ATyS and SIRCOVER · 40–400 A

03 VOLTAGE REGULATORS

Single and three phase, sized by kVA · on request

04 AVIATION OBSTRUCTION LIGHTS

Low, medium and high intensity · ICAO types A–E · on request

HOW WE DELIVER

FROM SURVEY TO SUPPORT

01

SURVEY & DESIGN

Site survey, load study and drawings to client and authority standards.

02

SUPPLY & BUILD

Equipment from leading brands, panel assembly and installation on site.

03

TEST & COMMISSION

Factory and site acceptance tests, approvals and handover.

04

SUPPORT & MAINTAIN

Preventive maintenance contracts and 24/7 support.



Let’s build what’s next

NEXAYT.COM

Phone / WhatsApp
+974 7787 3712

Email
info@nexayt.com

Address
P.O. Box 9044, Doha, Qatar

Website
nexayt.com