

Automated Control Systems



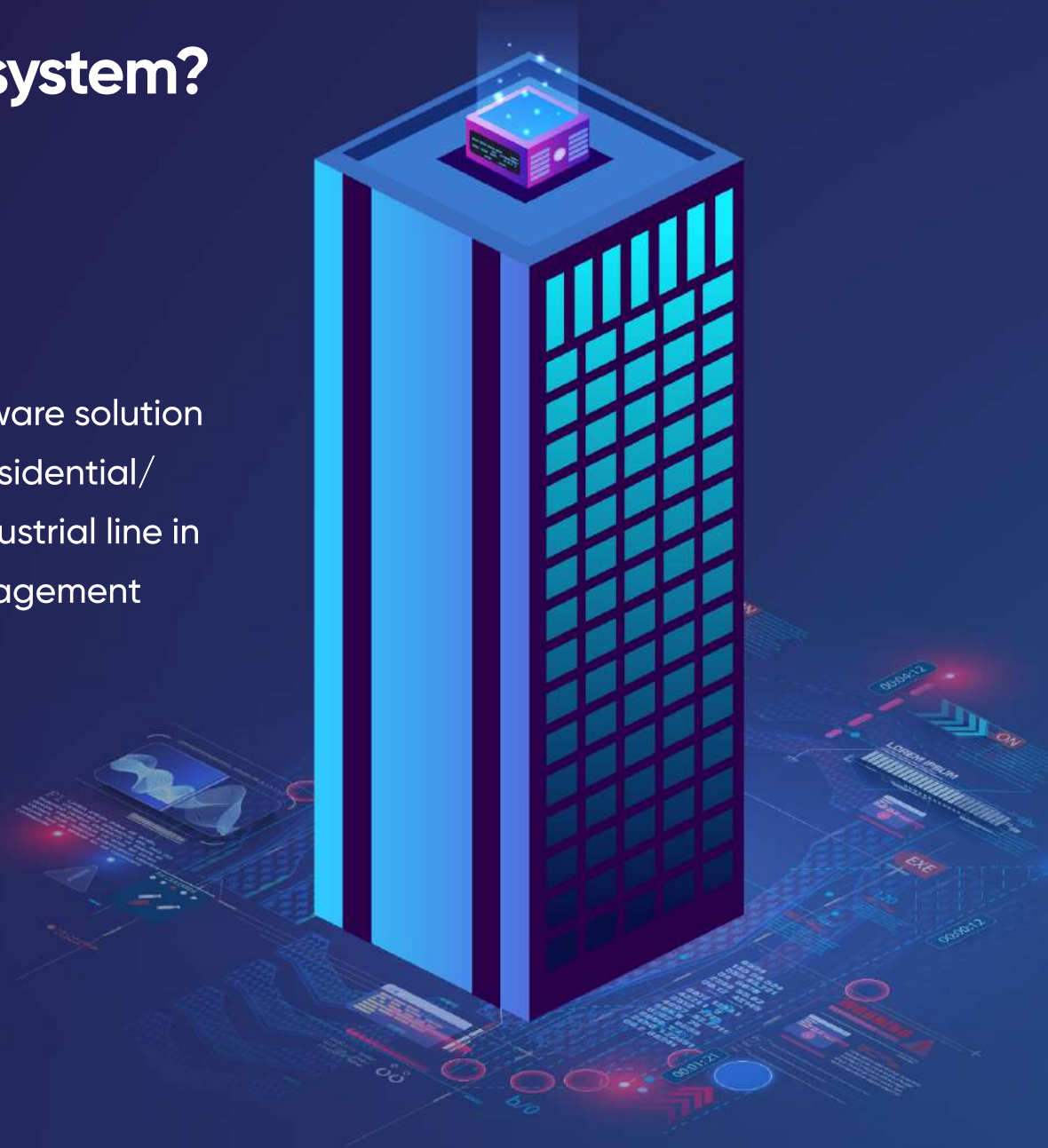
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What is automated control system?

Automated Control System - is a software/hardware solution that integrates the engineering systems* of the residential/public/industrial facility or components of the industrial line in a single point and provides their centralized management and monitoring.

*(e.g., lighting, water supply, ventilation, etc.)

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Private segment

The Automated Management System installed in hotels, business and shopping centers, administrative buildings, hospitals and other public facilities allows managing all life-support systems of the facility:

- Heating, ventilation and air conditioning
- Power supply
- Water supply
- Lighting
- Fire alarm
- Access control
- and so on.

The Automated Management System can be applied in any public facility with an area of more than 500 m²

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Residential segment

Smart residential complex consists in different systems, the purpose of which is to create convenient tool for controlling the utility costs (Push notifications, meter and utility fees readings) and convenient management environment for managing company (creating and editing resident's accounts, access control, etc.).

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Industrial segment

The concept of industrial automation includes many elements, e.g., programmable controllers (PLC), security systems, SCADA systems, drive technology and other related software products.

Main goal of industrial automation is to improve the safety, productivity, efficiency and quality of the processes. Industrial automation is applicable in plants, oil and gas platforms, chemical production, etc.

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Smart City

A Smart City – is interrelated system of information and communication technologies with IoT. This system simplifies the management of internal urban processes and makes the lives of the residents more comfortable and safer.

Main goal of a "smart city" is to optimize urban functions and result in economic growth, while simultaneously improving the life quality of the citizens through the use of intelligent technologies and data analysis.

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Automated control systems advantages

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Maximum safety

Ensuring maximum safety of people and minimizing material damage by means of reducing the "**human factor**" role in emergency situations.



Operating costs

Increase in the service life of the engineering systems **by up to 50%** thanks to the automation of the operations related to the control of their components.



Cost reduction

"Scenarios" are used and the efficiency of engineering systems is increased, so the costs **are reduced 10% to 30%**.



Convenience and efficiency

Increase in the efficiency of labour of technical staff **by up to 60%** thanks to the automation of the routine operations.

How does it work?

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Primary level

Designing and installation of different controllers, sensors, as well actuation devices and mechanisms.



Automation level

The installation of the controllers that function as a "brain" between the control level and primary level.



Control level

Integration of **SCADA** (*Supervisory Control and Data Acquisition*) software system for centralized control and monitoring.



What is SCADA?



SCADA systems are designed for monitoring and dispatching control of a great number of remote objects (even at a distance of tens of kilometres from each other) or one geographically distributed object.



Stages of our service



1

Technical assignment

Studying customer requirements and expectations;



2

Audit

Inspecting engineering systems in order to identify to what degree they are equipped with required components.

3

Equipping

Purchasing and installing required components.



4

Development & implementation

Implementing and configuring SCADA, developing "scenarios", customizing user interface.

5

Training

Training personnel to operate the developed BMS.



6

Technical support

Periodical preventive examination, operational problems solving.

What does our customer get?

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Automatized management

This is performed by an operator, who sends required commands to engineering systems via software interface (for example, turn on lighting and heating in Zone A).



Automatic management

This is performed without the intervention of an operator - basing on scenarios, which are developed in advance (for example, at the end of work day - at 6 PM, turn on lighting and heating in Zone A, B and C).



Monitoring

Status and activities of engineering systems are tracked in real-time mode; the received data is recorded into log-files.



Analytics

Basing on gathered data, detailed records are formed (for example, a report on electrical power usage by air conditioning system during the last month period).

Our customers

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Maerz (Switzerland)

Matanat-A Azerlime Factory (lime factory in Qazakh, Azerbaijan)

Technical support of BMS for the systems listed below:

- Restoring the functionality of the plant control system.
- Siemens PCS7 troubleshooting
- Modification of the DCS network infrastructure.

Matanat A

Our customers

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GeoSteel (Rustavi, Georgia)

Geosteel is a leading Manufacturer of Thermo mechanically treated construction steel rebars and plain bars.

Technical support of BMS for the systems listed below:

- Implementing control for new turbine using Siemens Industrial Controllers
- Development of a software solution for printing information tags containing a QR code for finished products
- Development of a project to consolidate various production management systems



Our customers



Georgian Energy Solution (Georgia)

Automation of water supply system of Mukhrani settlement (Georgia)

Technical support of BMS for the systems listed below:

- Development of a centralized automated system consisting of eight wells and two main pumps.

The total capacity of the system is 35l/s.



Our customers



Baku Crystal Hall

A multipurpose sports and concert arena 30 958 m² in area.

Development, implementation and technical support of BMS for the systems listed below:

- Electrical power supply
- External and internal lighting
- Heating, Ventilation and Air Conditioning (HVAC)
- Fire-alarm
- Access control



BAKU
CRYSTAL
HALL

Our customers

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AzInTelecom

The Regional Data Center under the Ministry of Transport,
Communications and High Technologies of the Republic of
Azerbaijan

Technical support of BMS, which is used for monitoring of the
systems listed below:

- Climate control
- Smoke, water and gas leakage detection



AZINTELECOM

Our customers

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**The Seaside Boulevard Office under the Cabinet of Ministers of
the Republic of Azerbaijan**

"The Ferris Wheel" project

Technical support of SCADA, which is used for
managing and monitoring:

- 30 input-output devices
- 150 actuators
- 300 sensors
- 7500 lamps



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Azerbaijan Supermarket "Bravo"

"Storehouse & Hypermarkets" project

Technical support of Building Management System
for Storehouse and Hypermarkets:

- Heating, Ventilation and Air Conditioning (HVAC)
- Climate control
- Smoke, water and gas leakage detection
- Drainage water tank monitoring
- Rooftop unit control system



Our customers

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Ministry Of Economy Of The Republic Of Azerbaijan

Project of "Technical support of the building of the Ministry of Economy of the Republic of Azerbaijan"

Technical support of BMS for the systems listed below:

- Electrical power supply
- External and internal lighting
- Heating, Ventilation and Air Conditioning (HVAC)



Our customers

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Aquatic Palace

Multifunctional sports complex with a total area of 70 200 m².

Technical support of BMS for the systems listed below:

- Electrical power supply
- External and internal lighting
- Heating, Ventilation and Air Conditioning (HVAC)
- Access control



Our customers

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Four Seasons Hotel Baku

One of the largest five-star hotels in Baku

Technical support of BMS for the systems listed below:

- Electrical power supply
- External and internal lighting
- Heating, Ventilation and Air Conditioning (HVAC)
- Water control



FOUR SEASONS
HOTELS AND RESORTS

Our customers

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Goygol Alcohol Factory

Establishment of control and accounting system for the production of alcoholic products

Our activities within the project:

- Investigation of the existing infrastructure of plants producing alcohol and alcoholic products
- Building a centralized automated system (CAS) model for collecting and analyzing data on manufactured products
- CAS integration with the existing factory infrastructure

Xan
1860

Our customers

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JW Marriott Absheron Baku Hotel

"Technical Support & Technical Procurement" project

Technical support & technical procurement for the systems listed below:

- Heating, Ventilation and Air Conditioning (HVAC)
- Supply of certified Siemens and Sauter products and services



JW MARRIOTT.
ABSHERON
BAKU

Our customers

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Khazar TV

"Recovery & Integration of systems" project

Recovery of the systems listed below:

- Recovery of automatic operation of fire suppression system
- Recovery of fire alarm system

Integration of the systems listed below:

- Public annunciation (PA)
- Fire alarm system
- Fire suppression systems



Our Partners

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SIEMENS



Partnyorlarımız

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CERTIFICATE OF COMPETENCE

This certifies that
Kibrit Baku / Azerbaidshan
has achieved the qualification program



This certificate is awarded by
SAUTER BUILDING CONTROL INTERNATIONAL LTD.

Sauter B. FREIBURG 31.03.2022
Internation. a. U. 1421
Hans-Böckler-Straße 15
79108 Freiburg i.Br.
M. BISMARCK, MARKET MANAGER S&C

First issued 19.09.2019 - Valid Until 31.12.2022



SIEMENS

Siemens Schweiz AG, 5010 P. 50100 INT, Thiersteinstrasse 1A, 6003 Zug

Letter of Authorization

We hereby confirm that

KIBRIT. TECH
102A Jafil Mammadguluzade,
City Point Business Center
Baku 1022, Azerbaijan

has been appointed as a Solution Partner of Siemens Schweiz AG, Smart Infrastructure, Building Products. KIBRIT. TECH is granted the non-exclusive sales rights for Contractual Products in the below listed Territory in which KIBRIT. TECH is authorized to market and sell the Contractual Products.

The Territory is Azerbaijan

Contractual Products are the following standard products, systems and services.

- Comfort Portfolio

The conclusion of any contract or agreement on behalf of Smart Infrastructure, Building Products (BP) or any action imposing any financial or other obligation on BP requires prior written consent.

This letter of authorization is valid until April 30, 2023.

Zug. April 4, 2022

Yours faithfully,

Gözü Kaletürk Sulejmani
Head BA BP International



Philipp Knebel
Head BP International

Siemens Schweiz AG
Smart Infrastructure
Building Products

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6000 Zug
Schweiz

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AO «Johnson Controls»
Россия, 121170, Москва, ул. Троицкая, д. 14
Тел. +7 495 232 66 60 Факс: +7 495 232 66 61



Date: 12.01.2022
To whom it may concern

Authorization letter

Hereby we confirm that «Kibrit.TECH» LLC (Azerbaijan, Baku, AZ1022, 102A J.Mammadguluzade, "City Point" Business Center 10th fl.) is an authorized System Integrator in the territory of Azerbaijan and authorized to provide delivery, installation, startup & commissioning and warranty services for Johnson Controls building automation products, systems and solutions.

This letter is valid until 31.12.2022.

Yours faithfully,

Oleg Vasin
Sales Manager BMS,
Controls Products Russia&CIS
Global Products
Johnson Controls

Licenses

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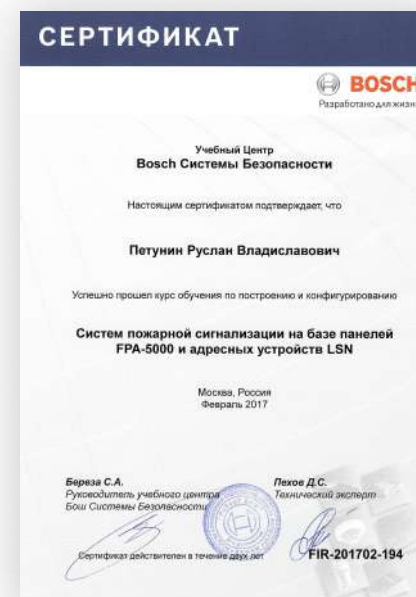


License for installation and repair of lifting devices, metallurgical equipment, pressure vessels and boilers.

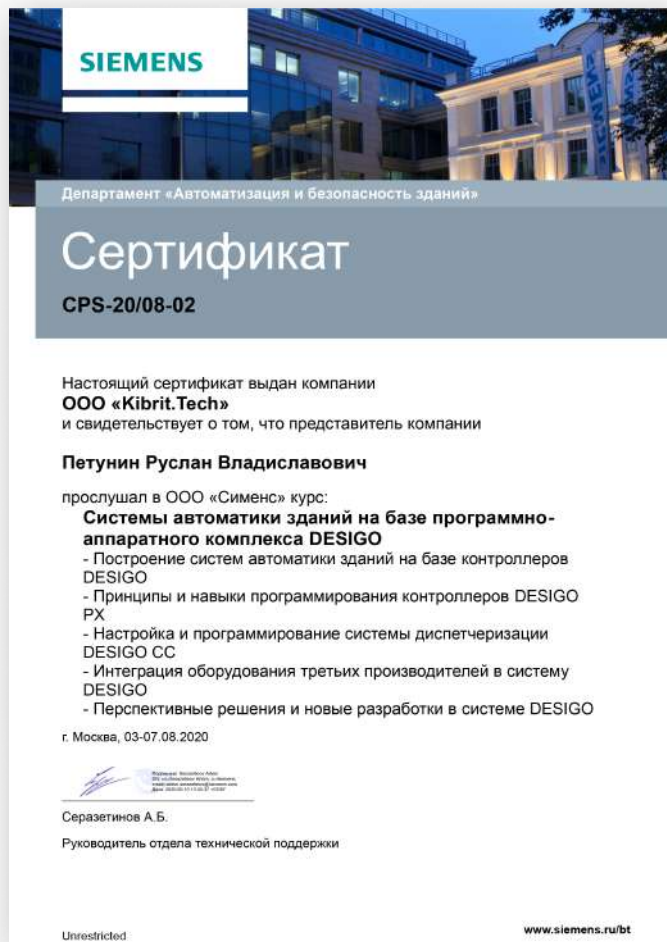
State license for performing the works on the restoration of automated control system of the boiler house and its functioning as a whole.

Certificates

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Certificates – Siemens



Certificates – Siemens



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Ingenuity for Life

Certificate
Comfort Basics, Valves & Actuators

Rashad Abdullayev
KIBRIT. TECH, Azerbaijan

We herewith confirm that the participant has attended and successfully completed the training course
"Comfort Basics, Valves & Actuators"

from 26th October to 29th October 2020.

The training consisted of the following topics:


- HVAC Basic Control and Principles
- Applications / Plant Diagrams
- Product Overview
 - Damper Actuators; Desigo™; Sensors; Synco; Thermostats; Valve & Actuators; Variable Speed Drives; Energy Meters
- HIT Tool – HVAC Integrated Tool
- Design & Engineering
 - Different Project stages
 - Typical HVAC applications
- DCM – Design Configuration Module
- Hydronic in buildings basics
 - Hydraulic functioning of simple HVAC plants
 - Heat exchanger and air-cooling coil characteristics
 - Hydraulic plant design analysis
 - Valve & Actuators sizing and selection
- Overview about Siemens Tools / Process
 - Siemens Partner Extranet
 - SIOS and RGR (Repair Guarantee Request)

Zug Switzerland, 29th October 2020


Markus Macrini
Head Comfort Product Management
& Technical Support


João Diniz
Product and Technical Support
Manager Comfort

www.siemens.com



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Certificate
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Elyar Ismayilov
KIBRIT. TECH, Azerbaijan

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Zug Switzerland, 29th October 2020


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Head Comfort Product Management
& Technical Support


João Diniz
Product and Technical Support
Manager Comfort

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Certificate
Desigo PXC4 and PXC5 –
Engineering and Commissioning

Rashad Abdullayev
KIBRIT. TECH, Azerbaijan

We herewith confirm that the participant has attended and successfully completed the training course
"Desigo PXC4 and PXC5 – Engineering and Commissioning"

from 17th November to 19th November 2020.

The training covered the following topics:

- Engineering and Commissioning workflow overview
- TX-IO configuration and Rail Engineering
- Modbus configuration with Diagnostics
- Programming editor and workflows
- Commissioning and Operation monitoring

The participant is now qualified:

To correctly engineer and commission Desigo PXC4 and PXC5

Zug, Switzerland, 19th November 2020


Markus Macrini
Head Comfort Product Management
& Technical Support


Adrian Fankhauser
Product and Technical Support
Manager Comfort


Jakub Hlubinka
Product and Technical Support
Manager Comfort

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Certificates – Siemens Industrial



Confirmation

Elyar Ismayilov

has participated in the training module

Process Control System Refresh Workshop

on: 29-NOV-2021 - 25-MAR-2022

Duration: 120:00 h

Main content:

- Project handling of PCS 7 multiproject with user project and master data library - System design - Planning and specifying hardware components - OS- Engineering and OS- Multistation - Technological engineering with Advanced Process Library - Sequential control with SFC and SFC- types and technological SFC engineering - Type- instance- concept with Process tag types and bulk engineering with IEA - Type- instance- concept with CMTs and bulk engineering with technological editor - Creation of APL conform blocks and block icons

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Confirmation

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Confirmation

Ruslan Petunin

has participated in the training module

Process Control System Refresh Workshop

on: 29-NOV-2021 - 25-MAR-2022

Duration: 120:00 h

Main content:

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Certificates – Sauter



CONFIRMATION

Mr. Ruslan PETUNIN

has participated in Training Course

**Engineering of modulo 6,
Ecos504 Modbus integration, CASE Suite 4.1**

which took place between 25th and 29th of October 2021

Subjects:

- Sauter Product Ranges Introduction
- Network Basics (History, MAC, IP-Addresses)
- BACnet Basics and CASE Sun
- Introduction new modulo 6 product range
- CASE Engine: Creating a new project, handling the program and Firmware modules for modulo 6
- CASE Vision: Creating Dynamic Pictures for moduWeb Vision moduWeb Unity and SVC
- Modbus integration using ecos504 with Modbus interface
- Workshop: Practical examples

Freiburg, 29th of October 2021

(Murat Tasqi)
Instructor

Sauter Building Control
Internationales GmbH
Hans-Bunte-Straße 15
79108 Freiburg

SAUTER
Creating Sustainable Environments.

CONFIRMATION

Mr. Rasul KICHIBAYOV

has participated in Training Course

**Engineering of modulo 6,
Ecos504 Modbus integration, CASE Suite 4.1**

which took place between 25th and 29th of October 2021

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Hans-Bunte-Straße 15
79108 Freiburg

SAUTER
Creating Sustainable Environments.

Certificates – Johnson Controls



CERTIFICATE OF COMPETENCE

WE STAND...

**SIDE
BY SIDE.**

THIS IS TO CERTIFY THAT

Rashad Abdullayev
Kibrit.TECH LLC

DATE

18 Nov 2021

SIGNATURE

Johan Schakenraad
(Sales Director EasyIO Europe)

IS AWARDED THIS CERTIFICATE OF COMPLETION SIGNIFYING THAT THE AFOREMENTIONED HAS SUCCESSFULLY COMPLETED ALL OF THE REQUIREMENTS OF THE **EASYIO CPT & F-SERIES CERTIFICATION PROGRAM** AND IS ENTITLED TO ALL THE RIGHTS AND PRIVILEGES ASSOCIATED WITH THIS ACHIEVEMENT AND FULL RECOGNITION.

S/N: JR21029

The power behind your mission

CERTIFICATE OF COMPETENCE

WE STAND...

**SIDE
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THIS IS TO CERTIFY THAT

Elyar Ismayilov
Kibrit.TECH LLC

DATE

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S/N: JR21030

The power behind your mission

References

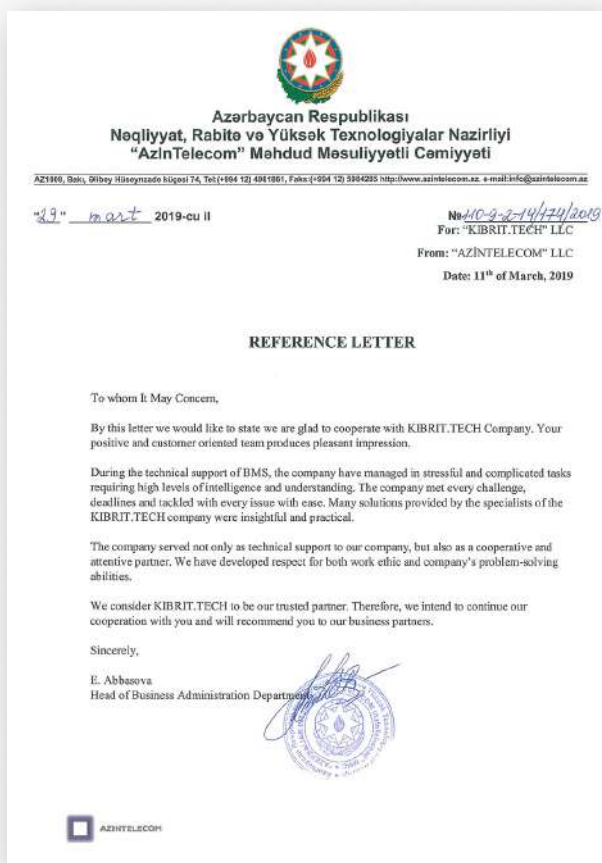


Baku Crystal Hall

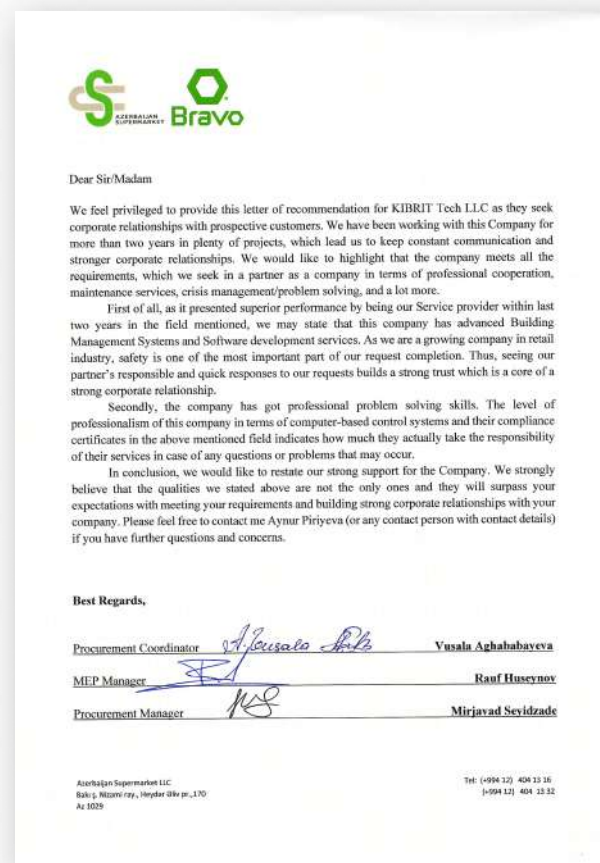


The Seaside
Boulevard Department

References



AzInTelecom



Azerbaijan Supermarket

Thank you for attention!

Contact us

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"City Point" Business Center

Baku, Azerbaijan

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