



Control Farayand-e-Bikaran Co.Ltd.

#9, No.6 , Soroush Alley, Valiasr and Zartosht Crossroads , TEHRAN – IRAN

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Unlimited (Bikaran) Control Engineering Design Company (Control Farayand Bikaran) was founded in 2004 in order to increasing promotion of industry in the country and serve the electricity industry in various fields using experienced and committed specialists and experts. This company has been successful in different industries across the country to release the scientific abilities and experiences by designing and executing the projects and train expertise forces.

The company's activities consists of three major parts in three units as following:

1. Training Unit
2. Business Unit
3. Project Unit

1. Training Unit

The major training activities of the company is concentrated on software training and industrial automation equipment of Yokogawa, Siemens, Allen Bradley, Omron, ABB , Intergraph Smart Plant, EPLAN, Control Systems, Instrumentation and Software. Companies, factories and organizations in the follow, directly and indirectly have benefited the company's training services:

Offshore Oil Company, Iranian Central Oil Field Company, Iranian Oil Pipeline And Telecommunication Company, South Pars Oil And Gas Complex, Tehran Refinery, Ilam Gas Refinery, Oil Industry University Of Mahmudabad, Sazeh Company, Nargan Company, Zagros Petrochemical, Amir Kabir Petrochemical, Sugarcane Sarcheshmeh Copper Complex, Development Corporation And Subsidiary Industries, Khuzestan Steel Company, Ahwaz Rolling And Pipe Mills Company, Iran Khodro Company, Iran Khodro Diesel Company, Iran Khodro Industrial Mold Company., MehrCam Pars Company, Saipa Company, Sazeh Gostar Saipa Company, Niroo Mohareke Company, Alumtek Company, Farab Company, Khuzestan Cement Company, Karoon Cement Company, Ardabil Cement Company, Mazandaran Cement Company, Dashtestan Cement Company, Zamzam Company, Ashi Mashi Company, Cement Of Bojnoord, Goldstone Tires Company, Aluminum Casting Industry Of Pars, West Oil And Gas, Gachsaran Oil and Gas.



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2. Commercial Unit

Control Farayand Bikaran Comany tries to supply the requirements of industry across the country using engineering and commercial experts. Also, this company tries to maintain the goals of Iranian companies to supply the technical requirements of country.

The commercial group in the company performs the following services by understanding the process of various industries and communication with foreign manufacturers and partners:

- Procurement as monetary, foreign exchange, Letter of credit (LC) delivered at the customer site or internal or external customs.
- Providing a wide range of instrumentation and control.
- Communicate directly with suppliers and immediate use of technical knowledge of manufacturing companies.
- Taking advantage of after-sales service and solving problems.
- Technical assessment of proposals received from manufacturers of switchgear, control and instrumentation and prepares a comparative table including a comparative list in terms of the technical and commercial.

Our company cooperates to manufacturers including:

ABB, SIEMENS, SCHNEIDER, MODICON, BECKH OFF, PHOENIX
CONTACTS, E+H, FISHER, OMRON, DELTA V, YOKOGAWA



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3. Project Unit

Services of project unit are based on the latest technology and software in the world as well as global standards. Summary of the activities are as follows:

- Implementation of projects as EPC
- Design of system based on:

PLC, DCS, ESD, F&G, FCS, SCADA, TELEMETRY, INSTRUMENTS

By reputable manufacturers such as:

SIEMENS, ROCKWELL AUTOMATION (ALLEN BRADLEY), YOKOGAWA,
SCHNEIDER ELECTRIC, ABB, EMERSON, SAMSON ...

- Development of software and required programming systems of industrial automation.
- Consultation and providing project to renovate and upgrade old systems and their implementation.
- Provide after-sales service and repair and maintenance.

The company having experienced engineers in designing and building of control systems, instrumentation and analysis of customer requests industries, has a long history and numerous finished projects.

The engineering part of company has ability to design and transform to the new control system. Older systems such as pneumatic, analog, etc., can be promoted using the Field bus transducers and Hart communications protocol or similar system to higher reliability. The new systems using software and hardware interfaces are easily managed from anywhere.

This section of the Company has Turnkey project regarding different administrative records. Therefore, This Company offers reliable projects and perfect after-sales services by in the case by providing proposals or tenders for projects in this area. This important issue is done due to the high performance and using internationally reliable equipment and systems.



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The following projects have been implemented by the company and details of each one is available upon request.

- Designing, programming, building boards, installation of control systems, instrumentation and monitoring of water absorption of sour gases of Razi Petrochemical located in Masjed Soleiman.
- Designing, programming, building boards, installation of control systems, instrumentation and monitoring of industrial air sector.
- Designing, programming, building boards, installation of control systems, instrumentation and monitoring of industrial air output.
- Designing, programming, building boards, installation of control systems, instrumentation, monitoring and Telemetry of the municipal wastewater treatment plant of Torbat Heidariye.
- programming and designing of graphical pages of open monitoring system of cement mill, closed cement mill, grate cooler, grill, DEDUSTING, grinding of Khuzestan Cement Company located in Rāmhormoz.
- Designing, programming, installation and commissioning of control system and designing monitoring graphical page and HMI of Color Line of Mayan Company (KOGEL-MAYAN).
- Consultant of commissioning control system and monitoring system and HMI of product line of refrigerated containers of Mayan Company (KOGEL-MAYAN).
- Designing, programming and commissioning of control and monitoring system of powder production line at Paknam Company.
- Control system programming and HMI of punching system of power generators materials to modify and enhance the system user at Pars Generator Company of (Mapna).
- Designing, developing, programming and implementation of monitoring and control system of pulp dryer of sugar factory in Ghazvin.



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- Designing and programming of control system of powder production line at Pakvash Company.
- Designing, programming, installation and commissioning of control system of the drilling cylinder of 405 vehicle in Iran Khodro
- Designing, programming of control system and monitoring system of internal body of refrigerators of Emersan Company.
- Designing, programming of control system and HMI of packaging machine of Kale Company.
- Designing, programming, installation of control systems and HMI of granite device.
- Designing, programming, installation and commissioning of control system and designing graphical page of monitoring system and HMI of wastewater treatment system of national group of Ahvaz steel.
- Designing, programming and commissioning of monitoring and control systems of hydro turbines, 2 MW of Masjed Soleiman power plant
- Designing, programming, constructing and commissioning of control system and monitoring of oil-fired boiler.
- Programming of Energy consumption control system (BMS) at Semnan, Zanjan, Kermanshah and Shahrood engine plant
- Designing, developing, programming and implementation of energy management systems (BMS) at office and commercial tower of Amout (Karaj).
- Designing of control system of DIRECT HEATER of Sadra- Naka Company
- designing of control system of Industrial boilers and BMS of 22-23-24phases of the South Pars complex



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- Designing, constructing, programming and execution of control system of Thickener of copper complex in Babak city (Meiduk).
- consultant in the design field, programming, construction, monitoring control system of reactive power compensators, static, TCR in Transformers KV230 at Bandar Lengeh.
- Consultant of Kanimes Company in designing, programming and developing PASTE THICKENER project monitoring and control system in Sarcheshmeh Copper Complex.
- Consultant of super active company in designing, programming, constructing and commissioning, monitoring and control system of oil-fired boiler.
- Consultant of Firouza Company in designing, programming, constructing and commissioning, monitoring and control system of overhead cranes of Sarcheshme Copper Complex
- Consultant of Nipak and Amatis Robin Company in designing of the third phase of Sarcheshmeh Copper Complex.