CURRICULUM VITAE

Proposed role in the project: Design/System Engineer

Family name: KOVAC

Name: Daniel

Date and place of birth: 31.01.1974, Pancevo

Nationality: Serbian

Civil status: Divorced

Education:

Institution [Date from - Date to]	Degree(s) or Diploma(s) obtained:
University of Belgrade; Faculty of Electrical Engineering 1992 – 2000	Department for Electronics, Telecommunications and Automation; Graduated Engineer; 2000

Language skills: Indicate competence on a scale of 1 to 5 (1 - excellent; 5 - basic)

Language	Reading	Speaking	Writing
Serbian	1	1	1
English	1	2	2
Hungarian	3	3	3
Russian	2	3	3

Membership of professional bodies:

Member of Engineers and Technicians society of Serbia

Member of Engineers chamber of Serbia (licenses 352, 353 and 450)

Other skills: (e.g. Computer literacy, etc.)

Windows; Word; Excel; AutoCAD; DCS and PLC programming, SIS (ESD) systems programming, various specialized engineers' software;

Present position: Design and system engineer

Years within the Company: ten

Key qualifications:

Control Systems, Instrumentation; Design, Consulting and Start-up in

– Power Production and Distribution
– Oil and Gas Industry
– Water Treatment and Distribution Systems
– Industry Installation
– BMS

Specific experience in the region:

Country	Date from - Date to
Serbia	2003 – 2022.
Russia	2008, 2010.
Romania	2006.
Croatia	2004 - 2006.
Czech Republic	2016-2019, 2010, 2012-2013.
Hungary	2011.
Bosnia & Herzegovina	2013.
Turkey	2015, 2022.

Professional Training:

FS Engineer (TÜV Rheinland) ID-No. #10826/15

DCS system DeltaV, Operator and engineer's training at Emerson, Baar, Switzerland, one week

Omron PLC programming, Belgrade, Serbia, one week training

Professional experience

Date from - Date to	Location	Company	Position	Description
2006 up to date	Belgrade Serbia	SET New Technology	System/design engineer	Control system and instrumentation design , Control & SCADA systems; Supervisory of installation works & start up
2003 - 2006	Belgrade Serbia	IPC, Beograd, Emerson Process Management representative for Serbia, Montenegro and Bosnia & Herzegovina	System/design engineer	Control system and instrumentation design, Control & SCADA systems; Supervisory under installation works & start up, Technical suport in design and selling Emerson's systems DeltaV and OVATION

PROFESSIONAL EXPERIENCE RECORD, MOST IMPORTANT PROJECTS

Year Country	Project Location	Client	Project Data	Function Service	Service Description	Project Description	Note
2022	Novi Sad, Serbia	Jim Tim	P22 business building	Lead design engineer	Detail design	Building automation (HVAC, KNX, DALI) for P22 building for transformer station, workspace and data center	
2021, 2022	Bursa, Turkey	ABRA	Bursa Power plant	Fail safe engineer	Design	Software design for modernization of ESD for cooling tower in thermal power plant, functional tests, on-site activities	
2019, 2020	Pančevo, Serbia	Honeywell	Pančevo Oil Refinery	Lead design engineer	Detail design	Replacement of old annunciator systems for compressors with new ESD Safety manager system	
2019	Pančevo, Serbia	Yokogawa	Pančevo Oil Refinery	Design engineer	Detail design	Replacement of workstations in MHC/DHT/HGU plant	

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2019	Pančevo, Serbia	Honeywell	Pančevo Oil Refinery	Design engineer	Detail design	Honeywell DCS/ESD system upgrade in Pančevo Oil refinery including software upgrade, replacement of old FSC ESD controllers with new Safety Manager controllers	
2019, 2020	Pančevo, Serbia	Yokogawa	Pančevo Petrochemical plant	Design engineer	Detail design, As-built design	Analyzer house AN1 with capacitiy of up to 6 analyzers in which two Yokogawa and one Siemens analyzers.	
2019	Pančevo, Serbia	Honeywell	Pančevo Oil Refinery	Design engineer	Detail design	KPI (Key Project Information) monitoring, for plant operation optimization. KPI monitor implementation in refinery plant control rooms.	
2018	Pančevo, Serbia	Yokogawa	Pančevo Petrochemical plant	Lead design engineer	Detail design, As-built design	Re-instrumentation of Etilen plant, ESD system - faze I. New Yokogawa ESD system implementation to Etilen plant.	
2018	Pančevo, Serbia	Honeywell	Pančevo Oil Refinery	Design engineer	Detail design, As-built design	Replacement of workstations in Blok V plant	
2018-2019	Melnik, Czech Republic	Emerson Process Management	Melnik Power Plant	Application software engineer	Application software	DCS system for Melnik Power Plant retrofit. Loop tests, site activities.	
2017	Elemir, Serbia	Regulator, doo	Elemir gas refinery	Design engineer	Detail design	ESD system expansion on pump station P-4	
2017	Pančevo, Serbia	Honeywell	Pančevo Oil Refinery	Lead design engineer	Detail design	Replacement of workstations in Bitumen plant	
2017.	Detmarovice, Czech Republic	Emerson Process Management	Detmarovice Power Plant	Application software engineer	Application software	ESD system for burners automation for Detmarovice Power Plant retrofit. System design and application software development and application, FAT, SAT.	
2017.	Sarajevo, Bosnia & Herzegovina	FormaPharm	Bosnalijek, Sarajevo	Design engineer	Detail design	HVAC system for medical plant	

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2016.	Pančevo, Serbia	Honeywell	Pančevo Oil Refinery	Design engineer	Detail design	Blok V MCC displacing from Ex zones. 0,4 kV drives remote control and supervision.	
2015.	Orhaneli, Turkey	Emerson Process Management	Orhaneli Power plant, Turkey	Startup engineer	ESD system, software design and startup	ESD system for Orhaneli Power Plant retrofit. Loop tests, SAT, unit start up	
2013 - 2014.	Prag, Czech Republic	Emerson Process Management	Orhaneli Power plant, Turkey	Application software engineer, design engineer	Application software	ESD system for Orhaneli Power Plant retrofit. System design and application software development and application, FAT.	
2014.	Bitola, Macedonia	BET	Bitola Power plant, Macedonia	Design engineer	Detail design	Communal heating subsystem design with steam heat exchangers, pump stations, etc.	
2013.	Pančevo, Serbia	Honeywell	Pančevo Oil Refinery	Design engineer	Detail design	Modbus communication connection od compressors to Honeywell DCS	
2013.	Ugljevik, Bosnia	ZP "Mine and TPP Ugljevik" A.D. Ugljevik	Power Plant 300MW	Design and startup engineer	Main design, Startup activities, As-built design	DCS system for Thermal Power Plant, synchronization cabinet	
2013.	Pančevo, Serbia	IvDam Process Control, Belgrade	Pančevo Oil Refinery	Design engineer	Detail design	Truck unloading terminal with Danload controllers connected with Emerson TMS	
2012.	Pančevo, Serbia	Honeywell	Pančevo Oil Refinery	Design engineer	Detail design	Honeywell DCS and ESD systems connection to Central Control Room	
2012.	Pančevo, Serbia	Honeywell	Pančevo Oil Refinery	Design engineer	Detail and As-built design	ESD system modernization Replacing old relay logic with ESD controllers	
2011.	LMG, Poland	Emerson Process Management	LMG gas storage and plant, Poland	Application software engineer	Application software	DeltaV SIS application for LMG gas plant	
2011.	Brod, Bosnia and Herzegovina	IV Dam process control, Belgrade	Refinery Brod, Bosnia and Herzegovina	Design engineer	Detail design	Instrumentation detail design consisting tank part, truck loading terminal and pump stations	

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2011.	Brod, Bosnia and Herzegovina	IV Dam process control, Belgrade	Refinery Brod, Bosnia and Herzegovina	Application software developer	Application software development	Application software for ship-barge loading terminal based on integration of TraceMode control software, VisualBasic and SQL database	
2011.	Barič, Serbia	IV Dam process control, Belgrade	Eko Dunav, Belgrade	Application software developer	Application software development	Application software for truck loading terminal based on integration of TraceMode control software, VisualBasic and SQL database	
2010.	Pancevo, Serbia	IMG, Belgrade	Refinery Pancevo, loading terminal	Design and mounting supervisor	Design and mounting supervision	Monitoring and supervision of design and mounting of river (barge) unloading terminal	
2010.	Kirishi, Russia	IV Dam process control, Belgrade	Refinery, Kirishi	Application software engineer	Application software and SCADA	DCS control system start-up for refueling LPG tankers.	
2009.	Zrenjanin	Dijamant, vegetable oil factory	Sunflower storage	Control system start-up	Mounting supervision	PLC application for sunflower storage controlling conveyors, transporters, truck unloading, filters	
2008 - 2009 Serbia	Kirishi, Russia	IV Dam process control, Belgrade	Refinery, Kirishi	Application software engineer	Application software and SCADA	DCS application at DeltaV station of Emerson's system for refueling LPG tankers.	
2008 Serbia	Kostolac	TE Kostolac blok A2	Ovation Scada modification	Wiring design and SCADA modification on site	Design, SCADA modification on site	Block A1 visualization at OVATION system for Block A2 & connection with block A1	
2007 Serbia	Koceljeva	»RAUCH SOKOVI« d.o.o. KOCELJEVA	Supporting systems for fruit juice factory	Design engineer	Detail design	Control system for supporting systems for juice factory (air conditioning, boiler, water preparation...)	
2008, 2007 and 2006 Serbia	Kostolac	TE Kostolac blok A2	Phase II	Design and system engineer	Technical documentation, mounting and start-up	Block A2 reconstruction – DCS system implementation for turbine. Solutions for control room for 3000 I/O signals: power supply, relay cabinet delivery, installing and connecting DCS system with a process, making SCADA visualization, database and participation at start-up.	

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2007 Serbia	Kostolac	TE Kostolac blok A2	HIMA ESD system	System start-up on site	Start-up	Block A2 reconstruction – Start-up of HIMA ESD system connected with Ovation DCS system	
2006 Serbia	Beograd	Energoprojekt	BMS system	Design Engineer Home Office;	Detail design	USCE shopping mall BMS system – building automation	
2006 Serbia	Jagodina	LUKOIL - BEOPETROL	TNG Terminal	Design Engineer Home Office;	Detail design	Instrumentation at TNG terminal Jagodina based on Emerson DeltaV control system	
2005-2006 Serbia	Jagodina, Bogutovac	LUKOIL - BEOPETROL	Oil derivate tank farm	Design Engineer Home Office;	Final & Detail Design	Instrumentation, Control & Monitoring System for rail-unloading, storage of oil derivates, auto-loading, pump stations for loading/unloading and system for tank cooling and fire quenching. Design was based on Emerson DeltaV system.	
2006 Romania	Bucurest	Grozavesti Power Plant	Boiler automation	Control system start-up On site ;	Start-up activities	Ovation system implementation project. This project included boiler and suporting systems monitoring and control, connection with HIMA controller	
2005 -2006 Croatia	Rijeka	Oil Refinery Rijeka / INA Maziva	Power supply block:	Control system start-up On site ;	Engireering	DeltaV system implementation project. This project included turbine monitoring, monitoring and control of power plant cooling unit and monitoring of tranformer station	
2005 Russia	Severo Danielovsko	LUKOIL Uraineftegas	TEC 20 MW	Design engineer	General and detail design	SCADA system and automatization of the whole plant (12 gas motors / generators) and all supporting installations	
2005 Russia	Harp Tjumen region	ОАО «Гипротюменнефте газ»	TEC 10 MW	Design engineer, SCADA programmer	General and detail design, SCADA application	SCADA system and automatization of the whole plant (6 gas motors / generators) and all supporting installations, Siemens WinCC SCADA application	

Year Country	Project Location	Client	Project Data	Function Service	Service Description	Project Description	Note
2004 -2005 Croatia	Rijeka	Oil Refinery Rijeka / INA Maziva	Power supply block:	Design and software engineer Home Office;	Design and application software	DeltaV control system implementation project. This project included turbine monitoring, monitoring and control of power plant cooling unit and monitoring of tranformer station	
2003 Serbia	Kostolac	TE Kostolac blok A2	1st phase	Design and start-up	Technical documentation, SCADA implementation, mounting and participation at start-up	A2 block reconstruction that consists of DCS system implementation for A2 block boiler. Solutions for control room for 1000 I/O signals: power supply, relay cabinet delivery, installing and connecting DCS system with a process, making SCADA visualization, database and participation at start-up.	

Daniel Kovač

Belgrade, November 2022