



dr. Marko Kovandzic

mechatronic and control engineer

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AREAS OF EXPERTISE

IT management

Business processes

ERP

Relational databases

Application development

Web programming

Control systems

Neural networks

Numerical analysis

Optimization

TRIZ

3D modeling

Graphic processing

PERSONAL SUMMARY

A competitive engineer with comprehensive knowledge of design, installation and maintenance of industrial systems that integrate people, technology, materials and information.

Currently looking for a suitable engineering position in a progressive company, willing to relocate.

PROFESSIONAL EXPERIENCE

Geokovandzic - Aleksinac

SOFTWARE ENGINEER

September 2018 – present

Developed web application for geodetic works documenting and preparation of geodetic studies.

Mei Ta Europe - Obrenovac

ERP APPLICATION ENGINEER

March 2017 – March 2018

Completed the first phase of ERP system (Infor) implementation in trilingual (Chinese-English-Serbian) speaking environment. Developed several web applications for the purpose of financial, material, human resources and information management. Created numerous services for data exchange with external sources (banks, government institutions, business partners, other company branches...). Established operational procedures, prepared numerous reports and harmonized the existing ones with the local needs and the legislative framework of the Republic of Serbia... [Detailed](#)

COMPUTER SKILLS

PL/SQL

MySQL

T-SQL

PHP

HTML

CSS

JavaScript

jQuery

DOM

AJAX

Oracle Forms

Oracle Reports

Jaspersoft Studio

C++

Visual basic

Matlab

Simulink

AutoCAD

Autodesk Inventor

CorelDraw

PhotoShop

[Atenic commerce - Čačak](#)

SYSTEM ADMINISTRATOR, ERP PROGRAMMER

August 2014 – October 2014

Renewed IT infrastructure and established administrative procedures. Installed, configured and certificated all hardware and software. Modified ERP, to meet owner demands, in terms of functionality and corporative style. Integrated IT system with the one at the company headquarters. All the time performed operational tasks and employee training ... [Detailed](#)

[Utva Silosi - Kovin](#)

BUSINESS PROCESSES AND ERP CONSULTANT

October 2012 – June 2014

Evaluated state and performance of business system and IT infrastructure. Made recommendations, established objectives and determined upgrade strategy. Test different ERP layouts and accomplished negotiations for implementing new one. Established company policies and procedures related to data security and integrity ... [Detailed](#)

DATABASE AND ERP PROGRAMMER

November 2011 – September 2012

In extremely short time indentified analytical requirements, developed data models, documents, forms, reports and installed necessary software, all in order to provide urgent start of production at a separate location. Developed several applications of various purposes, such as production planning, optimization of material consumption, and services for data exchange with the ERP installed at the company headquarters... [Detailed](#)

[Alpos - Aleksinac](#)

IT MANAGER

October 2005 – August 2011

Executed plans, coordinated resources, assigned duties to support IT needs. Developed, maintained and certificated IT infrastructure. Implemented ERP and developed additional applications, database routines, forms and reports. Trained and supported end users in exploitation of ERP and other software. The result was decrease of errors and administrative employees which influenced in reduced costs and increased productivity... [Detailed](#)

SALES ENGINEER

August 2004 – September 2005

Developed long-term relationships with clients from a several European countries. Designed software for creating documentation and keeping sales statistics and integrated it with existing business applications... [Detailed](#)

LANGUAGE SKILLS

Good spoken and written English

Superficial German

BEST TRAITS

Determination

Adroitness

Persistence

Rationality

REFERENCES

Available on request

ACADEMIC QUALIFICATIONS

[UNIVERSITY OF NIS, SERBIA](#) - [Faculty of Mechanical Engineering](#)
department of mechatronic and control

Bachelor with Honours in Mechanical Engineering – July 2003

Topic: Control Design for Multivariable Systems using Classical and Modern Techniques

[Doctor of Science in Mechanical Engineering](#) - February 2020

Topic: [Optimal Recognition and Localization of Acoustic Source Using Artificial Intelligence Methods](#)

Research fellow in the field of technical and technological sciences – November 2020

Decision: 119-01-36/2020-16/9 – Main Scientific Committee for Mechanical Engineering and Industrial Software of the Ministry of Education, Science and Technological Development

PUBLISHED PAPERS

Acoustic recognition of noise-like environmental sounds by using artificial neural network, Simonović, M., Kovandžić, M., Ćirić, I., Nikolić, V., Expert Systems With Applications, 2021, 184.

Near field acoustic localization under unfavorable conditions using feedforward neural network for processing time difference of arrival, Kovandžić, M., Nikolić, V., Al-Noori, A., Ćirić, I., Simonović, M., Expert Systems With Applications, 2017, 71, 138-146.

Application Of Triz Method For Improvement Of Black Welded Tubes Classification Process, Kovandžić, M., Miltenović, A., Machine Design, 2016, 8, 27-32.

Soft robot positioning using artificial neural network, Kovandžić, M., Nikolić, V., Simonović, M., Ćirić, I., Al-Noori, A., Facta Universitatis, Series: Automatic Control and Robotics, 2019, 18 (1), 19 – 30.

Co-author of a university textbook on **the design of automatic control systems** (ISBN 978-86-6055-142-1) - currently in the process of being published.