

EMIR OMERDIC

PERSONAL DETAILS

Full name: Emir Omerdic
Nationality: Bosnian
Date of birth: 26 May 1970
Place of birth: Tuzla, Bosnia & Herzegovina
Marital status: Married
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PROFILE

Electrical engineer with twenty six years of experience in supervision and control of complex industrial systems, maintenance of industrial equipment & instrumentation, management of emission pollution systems, programming complex control loops in industrial plants. Experience in operating under time and budget constraints. Four years of experience in teaching students about measurement systems and electronic instrumentation & sensors. Praised for ability to break down problems and clearly explain measurement techniques in simple way. Academic research experience in the field of plant model optimization with the aim of maximizing profit and control of wind turbines. Strong interpersonal and communication skills. Proficient in current software tools for control engineers.

EXPERIENCE

[October 2014 - Present]Cement Factory Lukavac

Head of Electrical maintenance department

- Organise work in shifts for 21 workers of department
- Responsible for quality of maintenance, orders of spare parts, health and secure work of worker in this department
- Training of new workers and engineers, cooperation and communication with outsourcing company who sale electrical

spare parts

[2003 – October 2014]Cement Factory

Lukavac

Senior Maintenance Electrical Engineer (Full Time)

- Designing maintenance strategies, procedures and methods to improve overall reliability and safety of plant, personnel and production processes.
- Diagnosing faults and breakdown problems for hot line process.
- Performing time-critical repairs for preventive or emergency maintenance.
- Carrying out improvements of existing computerized control system (PLC programming, SCADA, technological measurements, commissioning and start up procedures etc.).
- Arranging specialist procurement of spare parts (fixtures, fittings or components).
- Monitoring and controlling maintenance costs.
- Writing maintenance reports, ISO procedures and strategies to help with installation and commissioning guidelines.
- Writing and submitting professional publications.
- Representing the institution at national and international professional industry-related conferences, training courses, workshops and seminars.

[2009 - 2014] Faculty of Electrical Engineering

Tuzla

Teaching Assistant for Measurements & Instrumentation (Part Time)

- Designing, preparing and developing teaching materials.
- Delivering lectures and tutorials.
- Organising and executing laboratory exercises.
- Assessing students' coursework.
- Setting and marking examinations.
- Supervising students' research activities.
- Undertaking Continuous Professional Development (CPD) and participating in staff training activities.
- Writing and submitting peer reviewed publications.
- Representing the institution at national and international academic conferences, workshops and seminars.
- Establishing collaborative links outside the University of Tuzla with industrial, commercial and public organizations.

[1997 - 2003] Power Plant Tuzla

Maintenance Electrical Engineer (Full Time)

- Diagnosing faults and breakdown problems for DSC Siemens TELEPERM XP.
- Performing time-critical repairs for preventive or emergency maintenance.
- Arranging specialist procurement of spare parts (fixtures, fittings etc.).
- Writing maintenance reports and strategies to help with installation and commissioning guidelines.
- Installation, maintenance and analysis of emission pollution system.
- Writing and submitting professional publications.
- Representing the institution at national and international seminars and training courses.

EDUCATION

[2016-2022] Faculty of Electrical Engineering Tuzla

- PhD in Electrical Engineering
- Thesis Title: "Control system for directly connected offshore wind turbines"

[2003 - 2006] Faculty of Electrical Engineering Tuzla

- MSc in Electrical Engineering
- Thesis Title: "Mathematical modeling of clinker kiln and optimization of this model with the aim of maximizing profits"

[1989 - 1997] Faculty of Electrical Engineering Tuzla

- BSc in Electrical Engineering (GPA = 8.5 out of 10.0)
- Thesis Title: "Autotuning of PI Controller Parameters for DC Motor Using The Sensitivity Points Method"

[1986 - 1989] Secondary School "Gymnasium Mesa Selimović" Tuzla

- Math Technician.

SKILLS

Languages: Bosnian/Serbo-Croatian, English

IT: Matlab, LabVIEW, RS Logix, RS Linx, RS View, MS Office.

PROFESIONAL TRAINING & SPECIALIZATION

[July 2022] Zagreb Croatia

Organiser: ABB Croatia

[Mar 2011]

- Training in the use and maintenance of software and hardware for environmental monitoring in FCL Duragand and ABB equipment companies, Organiser: ABB Slovakia.

[Apr 2010]

- Presentation of product range and training for measurement equipment company Endress + Hauser

[Jan 2009]

- Training for programming PLCs Allen Bradley - Control families.

[Oct 2004]

- Training for maintenance and adjustment of communications equipment for businesses Hirschmann Industrial Ethernet

[Oct 2003]

- Training for the setup and maintenance of SIEMENS and Enotec gas analyzers, Kralupy na Vltavy, ELMEP

[Jun 2003]

- Training No. 2 for programming PLCs Siemens Simatic S7, Tuzla, ELCOM.

[May 2003]

- Training No. 1 for programming PLCs Siemens Simatic S7, Tuzla, ELCOM.

[Nov 2002 - Feb 2003] University of Twente, Enschede The Netherlands

- study room training in Electrical Engineering at Department of Signals and Systems, working on the identification of MIMO systems for noise suppression in space.

[Dec 2001]

- Design and maintenance of the TELEPERM XP system, Zagreb, SIEMENS

[Jun 2000]

- Design and maintenance of the TELEPERM XP system, Sarajevo, SIEMENS

[Apr 2000]

- Design and maintenance of the TELEPERM XP system, Sarajevo, SIEMENS

[Jan 2000]

- Maintenance of equipment for environmental monitoring, Austria Vienna and Katowice, Poland MLU

PUBLICATIONS

- OMERDIĆ E.,OSMIĆ J, A. O'DONNELL C., OMERDIĆ E. Control Algorithm for Parallel Connected Offshore Wind Turbine Generators. *Energies* 2021, 14, 4670. <https://doi.org/10.3390/en14154670>, 2021.
- OMERDIĆ E.,OSMIĆ J, A. TOAL D.A New Control Algorithm for Directly Interconnected Offshore Wind Turbine Generators, 54. International University Power Engineering Conference, UPEC 2019,September 2019, Bucharest, Romania.
- OSMIĆ J,KUŠLJUGIĆ M. A. MUJČINAGIĆ A, OMERDIĆ E.,EBRAHIMISALARI M.,TOAL D.Improved Real Time Emulator of a Wind Turbine Dynamic Model, MEDPOWER, 2018.
- OSMIC, J. and E. OMERDIC. Design and Implementation of Real Time Monitoring System of Water Flow in Hydro Power Plants Using Virtual Instrumentation Software. TMT 2011, Prague, Czech Republic, 12-18 September 2011.
- OMERDIC, E., D. TOAL and E. OMERDIC. Smart ROV LATIS: Flexible Survey Platform for Surface and Underwater Operations. ICAT 2009 - Sarajevo.
- RAHMANOVIC, S., V. DOLOCEK and E. OMERDIC. Signature Vibration Analysis for Detection of Faults in an Industrial Fan. *Mechatronics* 2008, June 23-25, University of Limerick, Ireland.
- OMERDIC, E., N. PRLJACA and J. OSMIC. Optimisation of Mathematical Model Of Cement Clinker Production in Factories. IFAC CEFIS, October 2007, Istanbul, Turkey.
- OMERDIC, E., N. PRLJACA and J. OSMIC. Mathematical Modelling of Cement Clinker Production in Factories. DECOM IFAC Workshop, May 2007, Cesme, Turkey.
- RAHMANOVIC, S. and E. OMERDIC. Online Vibration Monitoring of Machines in Cement Plant to Prevent Failures. DECOM IFAC Workshop, May 2007, Cesme, Turkey.

INTERESTS

Walking, Climbing, Swimming, Reading.