

B.Sc.M.E. Aleksandar Kovač

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Education

Graduate mechanical engineer, five year college degree at Faculty of Technical Sciences, University of Novi Sad, department for mechanics and design, graduated with highest mark on 29th of August 2002 at the Institute for motor vehicles.

Statics, dynamics and vibration, kinematics, mechanics of materials, stability of constructions, optimization methods, analytical mechanics, transmission of power and motion, mathematics, construction design, metal constructions, mechanics of fluids, thermodynamics, various technologies for machine parts production, machine design and motor vehicles.

Working experience and success results

- 2012** **Engineering manager in Crompton - Greaves Electrical Systems Zrt.**, in Budapest.
- Head of team of engineers, electrical and mechanical. Research, development and design of large high voltage electrical motors specialized for projects in nuclear power plants, oil refineries and fields, desalination plants, cement industry etc.
 - Up to 20000 kW of power.
 - Responsible to head of business unit.
- 2012** **Engineering supervisor of Japan Tobacco International Senta A.D.** (manufacturer of Camel, Winston, LD, etc.). Tobacco processing and cigarette manufacturing industry.
- 2008**
- In charge of predictive and corrective machine maintenance, technical improvements and machine modifications related to machine speed, efficiency, material yield and product quality in tobacco processing and cigarette making and packing technologies.
 - Supervision and management of local development, design and build of special parts and machines for JTI.
 - Creation of preliminary engineering studies, composition of business approval proposals for the company top management, project management, coordination and supervision of dynamics and quality of executed works of contractors, CapEx monitoring financial and technical. Trained in other JTI locations (DE, RO).
 - Installation of new machinery/production lines (installed 2 out of total 5 production lines in the factory), systems for product tracking, quality recording, support to metal related civil engineering works (build of warehouses), install of a flash dryer, overhaul of old factory for processing tobacco. Localy execution of initiatives of Global Engineering.
 - Technical support to new product launches.
 - Responsible to engineering manager and factory manager.
- 2008** **Head of research and development of mechanical components** in the factory of large electric motors in “**ATB-SEVER**”, member of ATB group, third largest European manufacturer of electric motors (power range 15-1500kW, frame size up to 710mm).
- 2007**
- 2006** **Independent designer, mechanical engineer for R&D in “ATB-SEVER”** company (www.atb-motors.com), on design of large electric motors (50-1500kW), make of calculations and technical documentation for production of welded, cast and cut parts for motors and supervision of production, assembling and testing of prototypes, selection and purchase of third party components, managing a team of lower range chiefs in production, very good personal relationship with coworkers, and active consulting with technologists of various branches with goal to replace the existing processes, procedures and technical solutions to reduce production cost and time, implementation of gained knowledge on the following projects in the factory with over 90 years of tradition and experience in machine design and production of industrial equipment, being a member of an international enterprise.
- 2004**

Used to work in international environment with sharply defined dynamics and high standards of quality. Member of various engineering commissions, including the representation of ATB-Sever in the National Institute for Standardization. Trained abroad (Germany). Technical support expert for large buyers, including governments and industrial projects part financed by EU. Good professional knowledge of metal processing technologies and standards in machine design.

Mechanical R&D career highlights:

- 2003**
- largest low voltage IP23 electric motor made by the company until the June of 2007: axis height 560mm, weight 4200kg, 24 pole power generator, designed to be powered by a water turbine without the gearbox in between
 - largest low voltage IP55 electric motor made by the company until the June of 2007: axis height 560mm; weight 6500kg, frequency controlled with power up to 1400kW
 - smallest in size marine electric motor of 800kW available on the world market in 2005
 - world's first 500kW electric motor within axis height 355mm made using the formed winding technology, favored for extra reliability and efficiency
 - main responsible engineer on a 5 year contract worth 42mil € for a world wide known japanese company: also a manufacturer of electric motors and industrial equipment
 - main responsible engineer on project of unification of parts in the factory of large electric motors, in order to minimize delivery time and cost of stocks

Working in the project bureau of "Bomex" d.o.o. in Novi Sad, which is one of the leading companies in the country for drywall systems and interior design (www.bomex-gips.com). CAD modeling, contacting the numerous foreign companies to which "Bomex" was representative for Serbian market or partner in civil engineering projects, consultancy for all sorts of mechanical engineering related issues, making of feasibility studies and estimates of needed investments into new production activities (mechanical engineering related) that the company wanted to expand into.

"Nikola Tesla" bronze medal on industrial design competition/exhibition organized by Federation of Inventors of the City of Belgrade, May 2003, the work is presented on my web page.

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- 2002** 3D models and vizualization in architecture, honorary work for architectural bureau specialized for villas and hotels, in a team of up to ten members, experts of different disciplines, presentation of 1 to 8.5 mil. € worth projects with goal to find investors, with very short deadlines to meet:
- 2000**

PC skills

CAD: parametric modeling in 3D environment, familiar with structural, thermal and dynamic analysis, synthesis and optimization of machine elements and systems, AutoCAD, Mechanical Desktop combined with Visual NASTRAN, Architectural Desktop, ArchiCAD, Visual Desktop NASTRAN, Solid Works, Pro Engineer. Working Model 3D/4D

Mathematical calculus and numeric data processing: MathCAD, Scientific Working Place, MS Excel. **Vector and bitmap graphics:** Corel Draw, Adobe Photoshop, also some similar programs. **Text processing** with various software tools.

I can quickly learn software tools that deal with material I am competent with although I have abandoned some of them during my project management career. Not only in PC skills, I am an independent and a fast learner in general, therefore I can work well alone as well as a team member. English language perfect spoken and written; German not so, although I can deal with technical documentation in any language.

Hobby

Building a sporty (150HP) three wheeler with two wheels in the front and all wheel drive in own machine shop equipped with a lathe, a milling machine, TIG/MIG/MAG/arc welding and other common tools, also skilful at laminating composites.