**Oleksandr Lepak**

Malyn, Ukraine

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Date of birth: 4.05.1983

Nationality: Ukrainian

**Profile:**

Skilled mechanical design engineer with 14 years of career experience in the paper industry providing comprehensive and cost-effective solutions to a wide range of tasks related to the design of machinery and other infrastructure objects of paper and board production. Highly proficient in CAD (both 3D and 2D) and CAE (FEM/FEA), combined with solid management capabilities. Keen on learning, self-motivated, able to work independently and absolutely effective as a team player.

**Skills:**

* In-depth knowledge of CAD systems - Solidworks, Inventor, AutoCAD.
* Structural and motion analysis using finite element analysis systems (FEA) – Solidworks Simulation, ANSYS Mechanical

Proficiency in:

* Geometric Dimensioning & Tolerancing
* Standardization (ISO, DIN, GOST, DSTU)
* Piping and instrumentation diagrams (P&ID)
* Management systems according to ISO 9001. ISO 14000, ISO 45001

**Professional experience:**

**Mechanical Design Engineer**

Weidmann Malyn Paper Mill (Malyn, Ukraine)

June 2006 - September 2010

Description:

* Creating concept design, layouts, assembly and part drawings, bills of materials for production and modernization of papermaking and converting machinery, auxiliary equipment, and systems.
* P&ID for stock preparation, water supply, vacuum, and other systems.
* Checking and measuring the situation on-site.
* Mechanical calculations and structural analysis.
* Preparation of inquiries to contractors
* Dealing with multilingual technical and design documentation, national standards, ISO and DIN standards

**Head of Design division**

Weidmann Malyn Paper Mill (Malyn, Ukraine)

September 2010 – present

Description:

Additionally to the mechanical design engineer duties:

* Design division management
* Providing design direction
* Fulfilling mechanical engineering studies using FEA systems
* Communicating with suppliers and contractors
* Participation in international project teams

**Selected achievements:**

* Promotion after participation in a successful board machine modernization project (2010).
* Successful implementation of CAD systems into everyday use that led to a significant reduction of the design documentation developing time (within 2006-2011)
* Creating design solutions and coordinating contractors during paper machine modernization project, which resulted in the release of the new electrical insulating paper grades (2014-2017)
* Modeling and creating the full set of design documentation for a paper converting machine, which widens the mill’s product range (2017. Commissioned in 2018).
* Design of sizing units for crepe machines which lead to the ability of production crepe paper out of locally produced base paper (2019).
* Design of a semiautomatic wet board cutting machine - 2020

**Education:**

2000-2006 - National Technical University of Ukraine “Kyiv polytechnic institute”.

Master’s degree in electromechanical engineering. Design and manufacturing of welded constructions.

**Additional training:**

2019 – Yellow belt Lean Six Sigma

**Languages:**

Russian –native

Ukrainian –native

English – B2

German, Polish – beginner