

JANNE KOPONEN

Born: 8.4.1969 City Varkaus

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PROFILE INFORMATION

A highly experienced and passionate lead layout designer with over 30 years of expertise in boiler plant design, layout concepts, and pressure vessel structures.

Specialized knowledge in bubbling fluidized bed and recovery boilers, evaporators, and side-stream process plants (including lignin, sulfuric acid, methanol, odorous gas collection and combustion systems).

I have participated in numerous international projects, taking full responsibility for comprehensive layout design — from a blank canvas, equipment dimensioning, and process diagrams, all the way to optimized and serviceable plant structures.

I am proficient in proposal design, layout development, and project cost-efficiency.

I have been involved in Andritz's development projects since the establishment of the new Side Stream product area, and I continue to serve as the lead designer for new lignin plants. I also actively participate in site visits and client meetings, as I have a strong understanding of overall project structures and requirements.

I am meticulous, innovative, and a true problem solver — a designer who loves their work and brings energy, precision, and development ideas to the team.

I was the sole lead layout designer in the proposal phase, responsible for developing and delivering four different product layouts for Södra Cell Mönsterås in Sweden, a project awarded to Andritz worth over €100M.

I have also been involved in several other proposals and projects ranging from €50–100M.

KNOWLEDGE

PROPOSAL LAYOUT DESIGN

I specialize in proposal-phase design, where an experienced lead designer oversees the entire process. This includes determining the building's dimensions, positioning the main equipment—such as a steam boiler—and integrating all essential process equipment according to process flow diagrams, placing them in the most optimal locations. The designer also specifies the necessary access platforms that support both the main equipment and its associated systems, ensuring smooth operation and maintenance. They define and optimize the building layout so that pathways comply with standards, equipment is easy to maintain, and the facility remains safe and highly functional.

Effective proposal design leaves a strong impression on clients and can significantly reduce project costs.

Contracts are typically confirmed based on the layout available at the time of the offer, which (hopefully) also forms the basis for pricing.

SERVICE AND NEW PLANT LAYOUT DESIGN

I possess knowledge and experience across a wide range of fields. I am an excellent design engineer with extensive expertise. I approach my work with great care, and thanks to my experience, every aspect of my design is thoroughly considered. I also have a solid understanding of transport components and assembly connections on-site.

I am a highly motivated designer who loves their work and sees it as an essential part of the team. I am innovative and a true problem solver.

Designing condensate and process piping, ducting, and cable tray systems is part of my daily work.

RECOMMENDERS

- Elina Lohiniva, Business development manager
Tele: 0400 417 508 elina.lohiniva@andritz.com
- Erno Suhonen, Design manager
Tele: 040 542 9801 erno.suhonen@andritz.com

WORK EXPERIENCE

Elokuu 2025-

Senior layout designer JK Mill Engineering Oy, Varkaus

02/2007 – 24.4.2025

Senior Layout Designer – Andritz, Varkaus

- I joined Andritz Varkaus as a layout designer in February 2007, in a newly established power boiler team. I designed several bubbling fluidized bed boiler projects around the world.
- After 3–4 years, the design department was reorganized under distinct product families: Evaporation Plant, Recovery Boiler, and Bubbling Fluidized Bed Boiler. I continued as a layout designer in the Recovery Boiler team and worked on numerous projects, often also assisting with service projects.
- I specialized in proposal design, which essentially starts from zero. Based on the main equipment sizing and process P&ID diagrams, the experienced lead designer creates and builds the entire layout from the floor to the roof around the core equipment. I designed multiple recovery boiler proposals, many of which were successfully converted into awarded projects.
- I was one of the first layout designers in Andritz's latest development initiative — the Side Stream team. I started working on Sulfoloop (sulfuric acid) and lignin plant projects in 2017, which were also part of Andritz's new product segment at the time. Since then, I've acted as the lead designer and layout developer for new lignin plants and have also designed sulfuric acid plants.

- Following business acquisitions, burners were added to the Side Stream group, allowing me to work on several burner and CNCG/DNCG proposal layouts. In 2024, I also worked on methanol plant proposals.

11/1999 – 02/2007

Layout / senior layout suunnittelija Foster Wheeler Varkaus

- I began my career at the Foster Wheeler workshop in Pirtinniemi in 1999. During the first years, I worked on pressure part design for bubbling and circulating fluidized bed boilers. From 2002 to 2007, I carried out layout design for several projects and proposals.

12/1998 – 11/1999

Steel Platform and Stair Designer – Finnririlä Ky, Iisalmi

01/1997-11/1998

Heat Exchanger Designer – JK Engineering Oy

- I also ran my own design company during 1997–1998. Unfortunately, the Asian financial crisis began in 1998, leading to the suspension and freezing of ongoing projects from the main client, resulting in a significant loss of workload.

05/1993 – 12/1996

Heat Exchanger Designer – A. Ahlström Päivärinte workshop

- Created pressure vessel drawings for heat exchangers for workshop production.

EDUCATION

- Engineer in Mechanical and Metal Technology
Kuopio Technical Institute, 1988–1993
- Plant Mechanic
Varkaus Vocational School, 1985–1987

LANGUAGE SKILLS

- Finnish: Native language
- English: Basic professional proficiency

TECHNICAL SKILLS

- 2D AutoCAD
- 3D Software: PDMS / E3D
- Microsoft Office programs

HOBBIES

- Organizing music events
- Audio and lighting equipment