

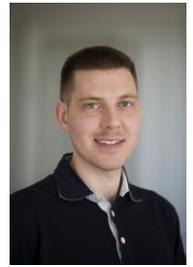
# Allan Dam Jepsen

## Systems Engineering specialist (ASEP)

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Ever since completing his engineering degree Allan has worked to solve the challenges of complex design in a wide range of industries. Working as a consultant, he has sought to not only deliver solutions to immediate problems, but also to aid companies in understanding their larger challenges and guiding them in how to address them. Allan's interest for both practical work and theory has led to the completion of a PhD in Engineering Design in 2015, and today he draws on the best of state-of-the-art research and practical experience from a diverse range of industries to create lasting change in the organisations he encounters.

The industries in which Allan has worked include companies building and producing power plants, offshore installations, cement factories, manufacturing systems, pumps, centrifuges, and many others.

### Keywords

- **Introducing systems awareness**
- **Bridging theory and practice**
- **Architecture & platform based development**

### Key competences

#### **Introducing systems awareness**

With a deep and impassioned understanding of systems architecture, Allan Dam Jensen has an aptitude for cutting to the bone and identifying what makes a client's challenges unique. Having worked with industry leaders such as Grundfos on his PhD project, he has gained a distinctive insight into how systems thinking shapes and is in turn shaped by an organisation. Working from a well-structured point of view, he ensures that the process and result are understandable to stakeholders from all disciplines.

#### **Bridging theory and practice**

With his background in both industry and research, Allan has gained a thorough understanding of the strengths and weaknesses of both worlds. In his work, he uses this insight to deliver the best of both theory and practical experience to solve the challenges at hand. By bridging the gap between theory and practice, he is able to deliver industry-leading results based on advances in state-of-the-art research.

#### **Architecture & platform based development**

Taking a hands-on approach, Allan works in close collaboration with development organisations that seek to deliver maximum satisfaction of customer needs based on well thought out system architecture and platforms using state-of-the-art tools such as Interface Diagrams and Product Family Master Plans (PFMP) for architecture description. With a clear focus on the specific needs of the client, Allan not only facilitates the development of product families, but also helps organisations in their transition to architecture and platform based product development.

Selected  
Key References

### **Introducing systems awareness to support modularisation**

Systems thinking was introduced as part of a change in development strategy from one-of design to platform based design. The work focused on developing supporting IT systems and processes to facilitate the change in design strategy, as well as the introduction of fundamental concepts and terminology in the organisation.

### **Developing collaborative system on a national scale**

Developing the basic principles of a collaborative system to support the digitalisation of the Danish building sector based on ISO/IEC 81346. The system is based on investigation of industry collaboration as well as proven systems theory and design theory. The result has a direct impact on more than 3,500 stakeholders and is transferred and implemented as a new upcoming international ISO / IEC standard.

### **Transition to Architecture & Platform based development**

Facilitating an initiative to transition to architecture & platform based design of production systems within the operations division of an industry-leading company. Co-leading the initiative included: definition of organisational goals and strategy; development of processes, roles, tools and methods; and communication of the initiative to the rest of the organisation. The results of the initiative were both generated and applied throughout multiple departments and development projects spanning the global organisation. The project has lead to new discoveries in the field or product modelling including expansions and new uses of Interface Diagrams, Product Family Master Plans (PFMP) and Generic Production Flows.