

# CONSULTANT PROFILE

## Work experience

#721

System Architect / Project Manager. Year of birth 1965  
Speciality: System- SW- and Control-design (modelbased), Project management and software development.

- 2011 - Prevas A/S  
Prevas Freelance Consultant
- 2012-2013 Solar power system
- 2011 Aarhus Universitetshospital.
- 2011 Amminex A/S  
Consultant
- 2009 – 2010 Aalborg Industries A/S  
R&D System architect
- 2006-  
External examiners of M.Sc educations.
- 2005 – 2008 Aalborg Industries A/S  
R&D Project Manager
- 2002 – 2005 Aalborg Industries A/S  
R&D System architect
- 1996 – 2002 MAN B&W Diesel A/S  
R&D System architect
- 1995 – 1996 Dancall Telecom  
R&D SW Engineer

## Competencies

### Project Management

- Prepare mandate and contracts, planning, estimation of resource, time and economy, tracking and reporting.
- Risk management, quality assurance, manage subcontractors.
- Project staffed with up to 5 persons.

### System architect

- Preparation of requirement- and design-specification, identify required competencies, technologies and tools, evaluate requirement.

### System development

- Real time system, model based regulator design, GUI-design, SQL-design. PLC-system.

### Test

- Specification, manual and automated unit test and system test, acceptance test, test plan and documentation.

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## Education

### Operating Systems

- Windows, Linux.

### Programming languages

- C/C++, Java, XML, SQL, Pascal, Matlab, Simulink, Stateflow, PLC.

1990 – 1995      Aalborg Universitet  
Master of Science, Electrical Engineering specialized in Control Systems.

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## Project references

### Optimization and Implementation of solar power system

2012-2013      System architect / Design of control system for solar power  
Design and optimization of control system for Parabolic Trough and Solar Towers. A model-based design was carried out and implemented in Matlab/Simulink. The control system was implemented in ABB-PLC.  
- Responsible of optimization and implementation.

### Aarhus Univesitetshospital as consultant

2011              System architect / SW design of brain scanner  
Design of user interface and automatic recognition of blod cluts location in the brain. The aim was to give the doctor a tool to quickly find the location of the clot. The system was implemented in Matlab.  
- Responsible of implementation

### Amminex as consultant

2011              System architect. / Design of automotive model  
Design of dynamic mathematical models for automobile catalyst system. The model was Implemented in Matlab/Simulink and C++.  
- Responsible of implementation

### Aalborg Industries

2009 - 2010      System architect /Morpheus  
Implementation of User interface in Java with a Server solution, Implementation of Control- and regulator-algorithms in Simulink/Stateflow and C++. Design and implementation of XML-parser. Design and implementation of SQL-database, System testing.  
- Responsible for the companies technology solution.

### Aalborg Industries

2005 - 2009      Project Manager/Fox Control  
Preparation of mandate for New Control system. Prepare contracts for suppliers, Preparation of System requirements and design. Preparation of HW requirements, Design of User interface and implementation of a prototype. Design of mechanical look. Design and implementation of Control- and regulator-algorithms. Testing System design. Investigate needs in dialogue with customers. Group staffed with 5 people.  
- Responsibility for the project management and implementation

### Aalborg Industries / Aalborg university (CISS)

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2004-2008 Project Manager / Morpheus  
Design of a SW-platform based on automatically code generation with Real Time Workshop, Design of Java Server, Design of Java GUI, Design of SQL-database, Linux operating system. Implementation of prototype based on designs.  
-Responsibility for the architecture and implementation

## Aalborg Industries

2002-2005 System architect. / Model based Control systems  
Design of dynamic mathematical models of marine boilers, Design of regulators based of mathematical models. Implementation and testing regulators on boilers. Design of New Testcenter and implementation of test-equipment, Supervisor for industrial Phd- and M.Sc-students, Writing articles and presents results on conferences.  
-Responsibility for R&D departments research activities.

## MAN B&W Diesel

1996-2002 System architect. / Control systems for Intelligent Engine  
Preparation of System requirements and design. Preparation of HW requirement. Design of User interface and implementation, Design and implementation of Control- and regulator-algorithms. Investigate needs in dialogue with customers. Supervisor at installations onboard ships. Testing system onboard Ships, Education of commissioning staff.  
-Responsibility of system-design, and implementation of system at customers.

## Education (continued)

1982 – 1986 Aalborg Ship Yard  
Electrician

- Developing Application With Java, SUN
- Java Programming Language, SUN
- Real Time Workshop – Embedded Coder, MathWorks
- Real Time Workshop – Fundamental, MathWorks
- Simulink for System and Algorithm Modelling, MathWorks
- Matlab programming techniques, MathWorks
- Matlab - Fundamental, Comsol
- ABB PLC course.
- Project manager course PL1. DIEU.
- SA-RT: Structured analysis of real time system, DTI.
- SD-RT: Structured desing of real time system, DTI.
- Object oriented analysis with UML notation, DTI.
- Requirements specification using Use Cases technique, DTI.
- Industrial EMC-courses, Jyske EMC.
- Labview basic course, National Instruments.
- Teaching basic course, Military sergeant education, Danish Military police.

