

## Teaching portfolio

### **1. Teaching CV: A list of any lecturing and supervision tasks, including specification of academic fields, scope, level (bachelor, master, continuing education, PhD) as well as any external examiner tasks.**

Courses on Master Level:

Previous:

- Aerospace Engineering
- Model Predictive Control
- System of Systems
- Hybrid Systems
- Matematisk Modeling og Simulering af teknologiske systemer II

Current:

- Hybrid Systems
- Model Reduction
- Advanced Nonlinear Control
- Mathematical Control Theory
- Modelling of Mechanical and Thermal Systems

Courses with Industry:

- Multivariable Feedback Control for Danish University Wind Energy Training.

Student Supervision:

- 6th, 7th, 8th, 9th semesters, and Master projects in Control and Automation
- 6th semester Matematik-teknologi
- Nonlinear Control
- Motion and Path Planning

Courses on PhD Level:

- Control and Optimisation
- Differential Geometry
- Nonlinear Differential Equations and Dynamical Systems
- Introduction to the PhD study
- Building the Bridge between Electric Grid Control and Communications in Smart Grids
- Verification of dynamical and hybrid systems

### **2. Study administration: A list of any study administration tasks, e.g. study board membership, head of studies or semester or course coordinator, accreditation, etc.**

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### **3. University pedagogy qualifications: A list of any completed courses in university pedagogy, PBL courses, workshops, academic development projects, collegial guidance and supervision, etc.**

- University Pedagogy for Assistant Professors, Centre for University Teaching and Learning, Aalborg University (1997-1999).

- Design and implementation of a new M.Sc. EE specialisation at Aalborg University: Intelligent Autonomous Systems. During the following 10 years, the specialisation was the most popular choice among the students in the Department of Electronic Systems (1998-1999).

- Start-up, fundraising and management of AAU student satellite program: AAU CubeSat. Each year over 50 students from across the university participated in this interdisciplinary program. AAU CubeSat was launched on June 30th, 2003. The program continues its successful existence at AAU with its currently 3rd satellite mission (2001-2003).

- Site manager of an educational project: Tele-Education in Mechatronics and Aerospace (TEAM). The objective of the project was to develop an international laboratory for teaching in mechatronics across Europe (Germany, Italy, Denmark) and Canada (1999-2004).

- Teaching supervisor for Jan D. Bendtsen and John J. Leth

### **4. Other qualifications: Conference attendance, editorials, presentations, etc. relating to education, 'University Teaching Day', etc.**

Type your answer here...

**5. Teaching activity development and teaching materials: A list of any contributions to the development of new modules, teaching materials, study programmes, e-learning, collaboration with external business partners, etc.**

Type your answer here...

**6. Teaching awards you may have received or been nominated for.**

Type your answer here...

**7. Personal reflections and initiatives: Here you may state any personal deliberations as regards teaching and supervision, any wishes and plans for further pedagogic development, plans for following up on feedback/evaluations from students, etc.**

Type your answer here...

**8. Any other information or comments.**

Type your answer here...