

Teaching portfolio

1. Teaching CV: A list of teaching and supervision tasks, including specification of academic fields, scope, level (bachelor, master, continuing education, PhD). Please state the teaching method used (e.g. lecture, class teaching, exercises, supervision, examination, coexamination, distance teaching, internet-based teaching and evaluation of teaching). Please also indicate the language of instruction.

Courses:

- Real-time systems and programming languages, Bachelor course, Aalborg University (2020-)
- Control of fluid power and electrical servomechanisms, Master course, Aalborg University (2021-)
- Embedded microprocessors: application and C programming, Master course, Aalborg University (2020-)
- Intelligent control and reliability oriented design, Master course, Aalborg University (2018-2019)
- Modern reliability from a practical approach, Master course, Aalborg University (2014-2015)
- Reliability in power electronics systems, PhD course, Aalborg University (2018-)

Supervised PhD projects:

- Modeling and Design of Accelerated Reliability Testing for Power Semiconductors, Xinming Yu, 2021-2024
- Voltage and Frequency Issues of Distributed Grids with Highly-Penetrated Photovoltaic Systems, Xian Gao, 2021-2024 (Co-supervisor)
- Stability and Control of Wind Generation Systems Connected to Weak Grid, Liang Huang, 2020-2023 (Co-supervisor)
- Multi-Sampled Current Control of Grid-Connected Voltage Source Converters, Shan He, 2022 (Co-supervisor)
- Modeling and Control of Solid-State Synchronous Generator, Meng Chen, 2021 (Co-supervisor)
- Optimal Power Control in DFIG Turbine Based Wind Farm Considering Wake Effect and Lifetime, Jie Tian, 2017 (Co-supervisor)

Supervised Master projects:

- PED-1, Analysis and Control of Three-Phase PWM Converters, 2018
- Intro, Operation of Doubly-fed induction generator, 2019
- PED-4, Accelerated test platform with on-line monitoring of wear data, 2019
- PED-4, Test System to Verify the Reliability of Lithium-Ion Batteries under Pulse Charge and Discharge Conditions, 2019
- EMSD-3, Control of a grid-side Converter of a Doubly-Fed Induction Machine for Wind Turbine Applications, 2023
- EMSD-3, Operation of Doubly-Fed Induction Generator based Wind Turbines, 2023

Supervised Bachelor projects:

- ME5, Modeling and Control of a Robotic Arm, 2022
- EN4, Design of high-performance Speed Controlled Permanent Magnet Motor Drive System Through Different Design Techniques, 2022
- EE5, Design of Totem-Pole PFC Converter and Its Control Scheme for a 3.6 kW Welding Machine, 2023

2. Study/programme administration and management: Experience in programme management and coordination. A list of study administration tasks, e.g. study board membership, chair of study board, semester or course coordinator, accreditation tasks, etc. Experience in planning teaching activities. Experience in programme development. Participating in committees and commissions etc. on education issues.

Type your answer here...

3. Formal pedagogical training: A list of completed courses in university pedagogy, PBL courses, workshops, academic development projects, collegial guidance and supervision, etc. Written assessment from the course in university pedagogy for assistant professors. Participation in conferences on pedagogy and didactics. Please enclose any documentation of the above, such as course certificates, references, etc

Completed the course "University Pedagogy for Assistant Professors at Aalborg University" (Adjunktpædagogikum), January 2019 - August 2020

4. Other qualifications: Conference contributions and attendance, contributions to debates, scientific articles on pedagogical issues etc. Peer supervision, editorials, mentoring experience or other types of competence development activities.

Type your answer here...

5. Pedagogical development and research: Development of new courses, teaching materials, teaching methods, examination types or other types of pedagogical development. Didactic and pedagogical research. Cooperation with external collaboration partners.

Type your answer here...

6. References on your teaching skills from superiors or colleagues. Teaching evaluations and any teaching awards received.

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 pedagogical development, plans for following up on student feedback/evaluations, etc. Personal reflections on your own pedagogical practice, including objectives, methods and implementation. This should include an analysis and a reasoned description of your pedagogical activities in relation to your pedagogical understanding and student learning. Thoughts on the teaching method at Aalborg University (which is largely based on group-organised project work and problem-based learning)

Type your answer here...

8. Any other information or comments.

Type your answer here...