

Svend Erik Andersen

Mechanical Engineer

- 4. February 1993
 Herning, Denmark
 SVEA Engineering
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- Social Network -



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Core Skills -

- Dynamics and Vibrations
- Modal analysis
- Simulation
- 👌 Linux & Unix
- Experimental work

Languages -



Based on personal evaluation according to the CEFR $\$ system.

Working Experience

05/24 – Mechanical Engineer (consultant) Schneider Electric 07/24 Design of mechanical components for data center UPS systems. 11/23 – Magnetic Bearing Specialist (consultant) **Qnetic Corporation** 04/24 Design of active magnetic bearings for Flywheel Energy Storage system. Results count a software to simulate a rotor suspended in actively controlled magnetic bearings. 09/22-System Engineer (contract) Siemens Gamesa Renewable Energy Solution Owner of Sensors and Actuators on the SG4X HNCF platform. Technical Project 11/23 Manager for blade-load sensors and the rotor imbalance estimation feature. 06/21-Software Engineer Hemonto A/S Creating a new financial platform (C# and Azure cloud) for portfolio- reconciliation and 09/22 consolidation. Responsibility for integrating a large client with special needs. 09/20-**Technical Development Engineer** Fritz Schur Energy A/S 06/21 Writing and maintaining software for controlling hydraulic blade pitch systems for wind turbines. Assigned technical responsibility for software, sensors, and electrical motors. Mar – DTU Mechanical Engineering **Research Assistant** Working with rotordynamics and control of active magnetic bearing systems as a Sep '20 consultancy for an external private company. 05/17-**Engineer (Student Assistant) byACRE** Hands-on R&D, CAD, product optimization, production and process improvements. 01/19 Feb – **Mechanical Engineer Intern** LINAK A/S Jul '16 Product optimization, root cause analysis of a failing product, CAD work and experimental work. **Education** 2017 – DTU Master's degree Mechanical Engineering (GPA: 10.1). 2019 Master Thesis % Analytical and Numerical Modelling of Contact Forces in Rotordynamics with Experimental Verification. DTU 2014 -**BEng.** degree 2017 Mechanical Engineering (GPA: 8.4). Bachelor Thesis % Experimental Characterisation of Backup Bearings Considering Lateral Rotordynamics -Application to Flywheels for Energy Storage. 2010 -Upper Secondary School (STX) Herning Gymnasium 2013 Foreign languages - with additional subjects in the fields of the natural- and social sciences (GPA: 10.9). Competences **Dynamics** I've specialized in vibrations and rotordynamics at DTU. I've worked with numerical analysis, e.g. FEM, and simulation of dynamical Applied Mathematics systems, e.g. impacting bodies. I've gained experience designing new electro-mechanical systems and solu-R&D tions the last 6 years (part- and full time) Tools & Technologies Software Ansys, LabVIEW, SolidWorks/Creo, Maple, LET-X. Programming Python 3, C/C++, C#, MATLAB/Simulink, JS, Fortran, PLC (ST), Bash, Web stack, SQL, MongoDB. Tech & tools OOP, Git, Node, Docker, Azure cloud, ReactJS, MPI/OpenMP, info sec. **Publications Contact Dynamics Between Flexible Rotors and Compliant Stators**

Svend E. Andersen, Andreas W. Aspe, Frederik E. Wagner, Ilmar F. Santos (Unpublished manuscript)

Profile

I'm an engineer with a broad skillset who like to work in the cross-field between mechanics, electronics and software. I'm persistent and motivated by challenging tasks. I'm used to work on novel problems, e.g. from my time in the research group of Prof. Ilmar Santos at DTU. While having a strong theoretical foundation, I understand the important practical perspectives, and have a flair for working hands-on and in collaboration with others.