

Mechanical engineer specialising in CFD and simulation-driven design, with an earlier career in commercial consulting that shapes how I connect analysis to product and business value. I build validated simulation models and turn them into practical design decisions. My bachelor thesis, carried out with VELUX, combined CFD in OpenFOAM and SolidWorks with a physical validation experiment and was graded at the highest level. I am looking for mechanical or development engineering roles where analysis drives real product design.

EXPERIENCE

- Engineering Intern - Design Optimisation**
VELUX · Østbirk, Denmark

FEB-JUL 2025

 - Worked on cost-out projects across current products, finding ways to reduce cost without compromising performance.
 - Analysed skylight upstand designs and insulation material choices for cost reduction.
 - Delivered proposals through close collaboration across product development, production, and technical verification.
- Freelance Business Consultant**
Self-employed

2014-2023

Consulting for companies from start-up phase to mature businesses, spanning market research, business intelligence, and innovation projects. Commercial and problem-solving experience I now bring to engineering work.
- Stagehand**
Live Nation Danmark

2016-2022

Freelance event and production crew, including leading small teams.
- Earlier & volunteer**

2007-2014

Tennis coach and board member, Herning Tennisklub · Events Manager, Glasgow Caledonian University · 1st place, Euroweek international project competition (Lille), on the future of individual transport.

EDUCATION

- BEng in Mechanical Engineering**
Aarhus University · Diplomingeniør, Maskinteknik

2023-2026

Bachelor thesis: in collaboration with VELUX, graded at the highest level - detailed under Selected Project below.

SPECIALISATION ELECTIVES
Applied CFD · Advanced FEM · Advanced CAD & Product Design · Hydraulics & Pneumatics (A / 12) · Introduction to Fluid Mechanics · Plastics Technology · Refrigeration & Climate Technology

CORE SUBJECTS
Finite Element & Mechanism Analysis · Dynamics · Thermodynamics · Metrology & Automation
- MSc in Economics & Business Administration**
Aarhus University · Cand.merc. - Risk Management, Marketing & Innovation

2012-2014

Thesis: Unexpected Events - why some organisations detect and respond to weak signals while others miss them.
- BSc in Economics & Business Administration**
Aarhus University & Glasgow Caledonian University · International Management

2008-2011

SELECTED PROJECT

- Aerodynamic Optimisation of a Skylight Upstand**
Bachelor thesis · in collaboration with VELUX

2026

 - Built and validated a steady-state RANS CFD model in OpenFOAM (k- ω SST), cross-checked against SolidWorks Flow Simulation and independent reference test data.
 - Designed and ran a physical water-analogue experiment to validate the simulation independently, rather than relying on the model alone.
 - Quantified uncertainty across mesh, domain, and measurement, and reliably identified the best-performing geometry to inform concrete design recommendations.

SKILLS

- SIMULATION & CFD

OpenFOAM · k- ω SST · snappyHexMesh · SolidWorks Flow Sim · ParaView · RANS modelling · Mesh generation · Model validation · Uncertainty quantification
- DESIGN & ANALYSIS

FEA / FEM · Design optimisation · Parametric studies · Cost-out · GD&T-aware design
- PROGRAMMING & DATA

MATLAB · LabVIEW · MySQL · Mathcad · Excel
- SOFTWARE

SolidWorks · SolidWorks Flow Simulation · OpenFOAM · ParaView · AutoCAD · MATLAB · LabVIEW · Mathcad · MySQL · EES · Coolpack · MS Office

LANGUAGES

Danish	NATIVE
English	FLUENT
German	BASIC
Dutch	BASIC
Swedish · Norwegian	BASIC

INTERESTS

Cycling (Zwift, FTP 3.5 W/kg) · Tennis · 3D printing

DETAILS

Nationality: Danish