Carl Emil Elling

ELECTRICAL ENGINEER

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Profile

I thoroughly enjoy creating novel solutions to complex problems. Although this might sound like a cliché, it is a driving force in my life, leading me to do electronic and mechanical projects in my spare time – **simply because I cannot help it.** This ranges from building a CNC router for my own enjoyment to starting an amateur rocketry club during my studies.

Employment History

Hardware Developer, C.B. Svendsen, Copenhagen

October 2020 — 2021

Worked as an all-round hardware developer in a product development house. Responsible for both mechanical and electrical prototyping, I developed their 3D printing facilities, and modernized their design process. I used my broad engineering profile to work closely with both industry and electrical technicians, developing 0-series products for ships, aviation and sanitizing.

Co-Founder, LærMaple, Copenhagen

2018 — 2019

During my studies, a friend of mine and I identified problems in the understanding and application of Maple, a math program primarily for engineers though often used in Danish high schools. This led us to develop a platform and a range of tutoring videos specifically to address these issues. The company was closed when we had to prioritize our studies.

Student Co-Worker, Pfizer

2015 — 2016

In my employ at Pfizer, I worked at the engineering office, assisting senior engineers in many situations. I have gained experience in engineering workflows, become a superuser in common enterprise software such as SAP, and generally laid a solid foundation for my superiors to work from.

Education

B.Sc. Earth & Space Physics & Engineering, Technical University of Denmark

2016 — 2020

Graded average: 10.4

*With bachelor thesis: "**Exploring the use of Brain-Computer Interfacing in drone control**" and participation in the Blue Dot project SensUs on biosensing epilepsy medication. Board member and founding member, 2016-2018, of DanSTAR, a student rocketry club.*

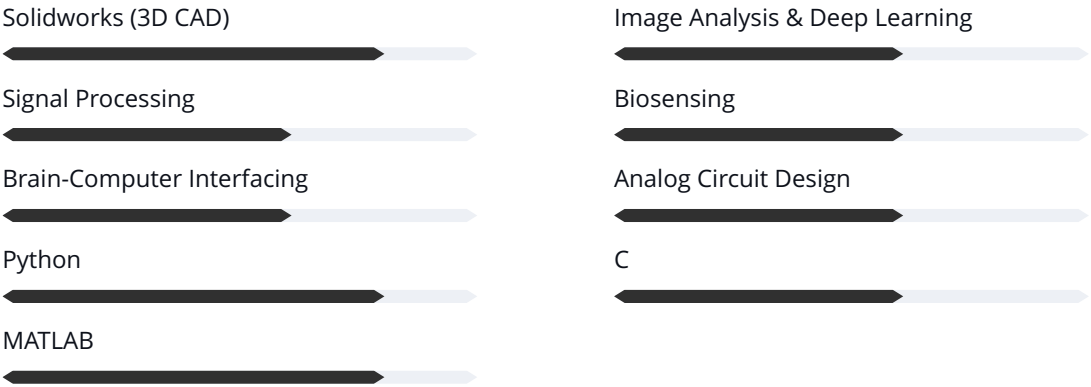### M.Sc. Electrical Engineering, Technical University of Denmark

2022 — Present

Currently enrolled.

Links

Skills

Solidworks (3D CAD)

Image Analysis & Deep Learning

Signal Processing

Biosensing

Brain-Computer Interfacing

Analog Circuit Design

Python

C

MATLAB

References

Martin B. SvendsenfromC.B. Svendsen

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Courses

Extra-curricular activities

Board Member, DanSTAR

2016 — 2018

Board member at the student rocketry club, DanSTAR, and a part of expanding it to the point where it is today. I was responsible for funding and participated in the physics sub-group in the club.

Project Manager, SensUs Student Competitionb

January 2020 — July 2020

*Along with a team of 15 students from varying engineering disciplines, I participated in the Eindhoven-based SensUs Student Competition, the goal of which was to **prototype**and **develop** a biosensor for detecting epilepsy medication in blood. I developed the electronics and sensing method using the Giant Magnetoresistance effect and acted as one of two **project managers***

Languages

Danish

English

Norwegian