



LEIF PEDERSEN

+45 51 14 14 70

kimpedersen@gmail.com

[linkedin.com/in/leif-pedersen-598104231](https://www.linkedin.com/in/leif-pedersen-598104231)

Website: pedersenl.github.io

Motivated student looking for more work experience within research and development along side my studies. I am fluent in English and Danish, and also have learnt Japanese and Spanish in school. Skilled in C++, Python and Java script.

EDUCATION

Physics and Engineering | DTU

Aug. 2023 – Ongoing

Focusing on courses in Quantum Information Sciences and Quantum computers.

Lyngby, Denmark

- I have a solid quantum information foundation from master courses such as Advanced Quantum Mechanics and Quantum Information.
- Currently working further on my area of interest of quantum computers with master courses like Quantum Algorithms & Machine Learning and Quantum Compilers.

High School Degree | Brookline High School

Aug. 2017 – May 2021

High School degree from the USA with 5 college level courses(AP classes).

Brookline, MA, USA

WORK EXPERIENCE

Class Teacher and Teacher Assistant – DTU

2024 – Ongoing

Ran a class as the programming class teacher for the Sustainable Energy Design major. Kongens Lyngby, Denmark

- Also teacher assistant in Math1a, Math1b, and Fysiks 1.

Restraunt Employee – McDonalds

February 2022 – August 2022

Worked at McDonald's full time after moving to Denmark alone.

Gladsaxe, Denmark

Visual Software Engineer – Solo Sciences Inc.

May 2019 – August 2019

Summer internship at a startup, I mainly worked on the app to read encoded images.

Boston, MA, USA

- Worked with image processing in C++ using OpenCV2. Developed algorithms for image manipulation and analysis.
- Participated actively in pitch and strategy meetings, contributing insights and ideas.
- Engaged in pair programming sessions, fostering knowledge exchange and code review.

Assistant Coach – Cambridge Fencing Center

2017- 2019

Assisted in fencing coaching in both private and group lessons.

Cambridge, MA, USA

Babysitting

2015 – 2016

Provided attentive childcare and prepared meals for a pair of wonderful siblings.

Brookline, MA, USA

EXTRACURRICULARS

Chemistry Olympiad

October 2022 - May 2023

Participated and made it to the final round of the danish Kemi OL.

Python Piscine | 42 (Computer Programming School)

May 2022

Intense, one month course in python including admission test to the school in which I passed.

Fencing

2012 - 2023

Fenced saber for many years despite through an re-occurring injury I received when I was a child.

- Won the Massachusetts State Championship in our category as captain of the High School fencing team.
- Won the Junior Nordic Fencing Championships for Denmark in 2022.

Track and Field

Spring 2021

Received "Rookie of the Year" and joined varsity in my first year of track and field for my High School.

PROJECTS

Optical Simulation Of Structured Materials For Single Photon Emission

Fall 2024

Programmed a optic simulator for light emission from quantum dots in micro pillars.

Fencing Scoring Box with Replay Technology

Spring 2021

Homemade fencing scoring box, with replay and timing capabilities on a raspberry pi.