Finnur Mauritz Einarsson

M.Sc. Mechanical Engineering student - Industrial Fluid Mechanics

I've been interested in solving complex problems since I was very young and today I have found my outlet in fluid mechanics. I enjoy having a diverse set of problems and getting to know different industries.

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EXPERIENCE

Vatnaskil ehf.
Iceland, Reykjavík (2023 - Present)

- Internship at an engineering **consultancy**, specialized in ground- and overland-flow, geothermal- and hydro power and other fluid applications.
- Surface- and groundwater **modelling**.
- Data and geometry manipulation in **psql**.
- **Python** programming.

Rio Tinto, Isal
Iceland, Hafnafjörður (2022)

- Analyzed safety data using **VBA** and Excel.
- Excel **macro** programming and implementation.
- Processed HSE (Health-Safety-Environment) reports.

Formula Student, Team Spark
Iceland, Reykjavík (2019 - 2022)

- Project Manager (2021 - 2022)
- Head of **Aerodynamics** (2019 - 2020)
  - Design of aerodynamic devices.
  - back wing angle **optimization** using CFD (Ansys Fluent).
  - Carbon fiber **fabrication**.

Zerobars ehf.
Iceland, Reykjavík (2021)

- Co-founded **startup** focused on cycling product development.
- Conducted **rapid prototyping** and testing.
- Secured grant for further development.

The Prime Ministry of Iceland
Iceland, Reykjavík (Summer 2020)

- Processed sensitive legal documents and materials.

RELEVANT COURSES

Complex Flows – *DTU (2023)*
This course equipped me to handle complex flows, considering various factors like surface tension, compressibility, heat, and scalar transport, and apply these skills in practical engineering scenarios. The course's assignments included a simulation of particles suspended in fluid as well as a two-phase CFD study on capillary flow.

Experimental Fluid Mechanics – *DTU (2023)*
A course on collecting data on fluid mechanics experiments, using python and Matlab to visualize and analyze the fluid and lastly describe the models and theory present in the experiment.

Energy systems – *DTU (2023)*
This course gave me insight into analyzing, designing and optimizing different energy systems in terms of cost, exergy and enthalpy. Our focus was on geothermal plants with additional district heating applications.

Mechatronics – *UI (2022)*
In this course I did two assignments, both of which included the use of (micro-controllers). For the final project we did a controlled mushroom cultivation environment where sensors and motors were used to provide a more ideal environment to grow food-grade Lion's mane and oyster mushrooms.

The QR code to the right links to my personal website, detailing a few of my projects from my studies. This website also contains a link to my LinkedIn profile.

EDUCATION

M.Sc. Mechanical Engineering

Technical University of Denmark 2022 – Autumn 2024 (expected)

An incomplete list of courses:

- Image analysis
- Turbulent Flows
- Computational Fluid Mechanics
- Advanced Fluid Mechanics
- Robotics
- Energy systems - analysis, design and optimization

B.Sc. Mechanical Engineering

University of Iceland 2019 – 2022

An incomplete list of courses:

- Heat Transfer
- Modern Manufacturing Processes
- Design of Machine Elements
- Computer Aided Design
- Automatic Control Systems
- Mechanical Vibrations

LANGUAGES

Icelandic
Mother tongue

English
Fluent

Danish
Basic - Learning

German
Elementary