Lars Halvor Hansen

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SUMMARY

Very creative, and intrinsically motivated student in the final year of a master level electronic engineering degree. Bc in economics. During the studies, I have become increasingly interested in data-science and economics. Thus I am overqualified in harware/firmware experience.

SKILLS

Programming & Query Languages
Python, C++, SQL, JavaScript

Data & Analysis
Excel, pandas, NumPy

DevOps & Tooling
Git & GitHub, Linux, Nix, Vim

Engineering Design (CAD/EDA)
Altium Designer, KiCAD, SolidWorks

Technical Writing & Documentation
Typst, LaTeX, Markdown, MS Office, Google Docs

Languages
Norwegian (native) · English (fluent C2)

EXPERIENCE

HYPSO NTNU | Masters student Aug 2026 - now
- Developing a satellite Software Tool Kit for simulating power and data budgets over multiple orbits
- Accellerates satellite developement due to rapidly prototype and testing abilities

Harmonize.no | Part time Developer Aug 2026 - now
- Developing a user friendly interface for vizualizing satellite orbits for developing countries
- Extending the core capabilities of Harmonize

Sony Semiconductor Europe | Digital Design Intern June - Aug 2024
- Developed Python/YAML to SystemVerilog UVM translation tool, automated verification processes
- Improved company knowlage about the efficiency language automation tools

Disruptive Technologies | Embedded Intern June - Aug 2023
- Designed IoT sensor hub with Nordic nRF9160 and ZephyrRTOS
- achieved significant power reduction of less than 1/100th of the original power

Orbit NTNU | Systems Engineer & Electronics Engineer Sep 2022 - June 2024
- Designed STM32-based OnBoard Computer PCB for BioSat CubeSat mission
- Developed power budget analysis for 7+ subsystems

NTNU | Teaching Assistant in Introduction to Electronics Aug - Dec 2023
- Supported 100+ students by providing technical guidance during lab sessions and lectures

ShiftHyperloop | Battery Systems Engineer Sep 2021 - Jul 2022
- Designed high-voltage battery enclosure (200V+) with integrated BMS
- Engineered EMI shielding and thermal management for competition-grade hyperloop pod

Ungdomsakademiet | Private Tutor Jan 2019 - Jun 2020
- Private tutoring in mathematics, science and English with measurable grade improvements

PROJECTS

Lambda the Simulation project | Founder and sole developer Jan 2025 - now
- Modeling relationships between economic factors using stochastic simulation methods and autonomous agent modeling. halvorhansen.no/lambdasim

Economic Outλook | Writer, publisher and designer Dec 2024 - now
- Publishing monthly articles on macroeconomic market trends and other socioeconomic topics
halvorhansen.no/economicoutlook

EDUCATION

NTNU | Electronic System Design and Innovation Master Aug 2021-now
Specialization in Space Systems

NTNU | Economics - Bachelor's Degree Aug 2024-June 2026
Bachelor's Thesis: Regional Impacts of Global Oil Price Volatility

REFERENCES

Håvard Mellbye
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