

Aron Widforss

Résumé

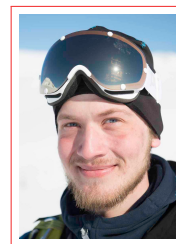
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Drone license: A1, A3



Professional Experience

- June 2020– **Engineer**, *Norwegian Water Resources and Energy Directorate*.
Full time since Aug. 2021. Permanent employment since June 2022.
- Develops software that facilitates avalanche observation and forecasting, e.g. the *Varsom field observation app* and Bluetooth sniffers that count skiers in the backcountry.
 - Enables 3rd party data integration, e.g. by developing the *regobslib* Python package used by Norwegian researchers.
 - Editor for the *Guide for field observations and assessments of avalanche danger*.
 - Forecasts lake ice hazards for the national natural hazards forecasting service, *Varsom*.
- Nov. 2019–June 2020 **Software Developer (part time)**, *Grepit — Embedded Solutions*.
- Distributed embedded development of *Zpark electrical vehicle charging stations*. The product was written in Rust and utilized the LoRa radio protocol.
- Sep. 2019–Mar. 2020 **Software Developer (part time)**, *Swedish Environmental Protection Agency*.
- Development of an InfoEx-integrated avalanche observation database and a remote avalanche detection system using satellite-borne radar.

Volunteering

- Aug. 2023– **Search and Rescue Dog Handler Recruit**, *Norwegian Search and Rescue Dogs*.
Oct. 2021– **Search and Rescue Corps Member**, *Norwegian Red Cross*.

Education

- Aug. 2016–Oct. 2021 **Master of Science in Computer Science and Engineering (5 academic years)**, *Luleå University of Technology*.
- Master thesis: *Teaching machines to recognise avalanche conditions*.
 - Bachelor thesis: *Avalanche visualisation using satellite radar*.

Professional Training

Norwegian Search and Rescue Courses, *Norwegian Red Cross*.

- Feb.–Mar. 2024 **SAR team leader (LSOR) & Intermediate avalanche rescue**
Oct. 2022 **Qualified rope rescue**
Sept. 2022 **Qualified ATV**

Swedish Avalanche Courses, *SVELAV*.

- Jan. 2024 **SVELAV Advanced avalanche rescue**
Nov. 2021 **SVELAV Weather**
Feb. 2021 **SVELAV Pro 2 — Avalanche technician**
Equivalent to CAA ITP Avalanche Operations Level 1.

NVE Avalanche Courses, *Norwegian Water Resources and Energy Directorate*.

- Mar. 2023 **4B — Intermediate avalanche field observation**
Feb. 2023 **Pro 2B — Avalanche emergency preparedness**