

Aron Widforss

Resumé

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Professional Experience

- Jun. 2020– **Ice and Avalanche Warning Service**, *Norwegian Water Resources and Energy Directorate*, Narvik.
Aug. 2021– Full time, temporary contract. Ice forecaster and software developer.
Jun. 2020–Jul. 2021 Part time, remote internship. Development of internal tools for avalanche forecasting: a user interface for the remote avalanche detection system Satskred, a statistics dashboard tracking the field observation database Regobs, as well as automated avalanche forecasts.
- Nov. 2019–Jun. 2020 **Software Developer**, *Grepit — Embedded Solutions*, Luleå.
Part time. Distributed embedded development of electrical vehicle charging stations, Zpark. The product was written in Rust and communicated over the LoRa radio protocol.
- Sep. 2019–Mar. 2020 **Avalanche Forecasting Service**, *Swedish Environmental Protection Agency*.
Part time, remote internship. Software development of an avalanche observation database and a remote avalanche detection systems using satellite-borne radar, Avonor. This work was mainly done in TypeScript, PostgreSQL and PostGIS, but also utilised ESA SNAP Graph Processing Tool and Google Earth Engine.

Volunteering

- Oct. 2021– **Search and Rescue Corps**, *Norwegian Red Cross*, Narvik.

Papers, Presentations and Posters

See Google Scholar profile: <https://scholar.antarkt.is>.

Education

- Aug. 2016–Oct. 2021 **Master of Science in Computer Science and Engineering**, *Luleå University of Technology*, Luleå, 300 ECTS.
○ Master thesis: Teaching machines to recognise avalanche conditions.
○ Bachelor thesis: Avalanche visualisation using satellite radar.
Includes 30 ECTS in geographic information systems and cartography.
- Aug. 2020–Jun. 2021 **Norwegian**, *Stockholm University*, 30 ECTS.

Professional Training

- Nov. 2021 **SVELAV Weather Workshop — Mountain Weather and Avalanches**, *Swedish Environmental Protection Agency*.
- Feb. 2021 **SVELAV Pro 2 — Avalanche Technician**, Kittelfjäll.
Equivalent to the Canadian Avalanche Association's Avalanche Operations Level 1 course.