

# CV - Albin Stigö

Nationality: Swedish  
Date of birth: 1983-08-31  
Languages: Native Swedish, fluent English, intermediate Danish and Portuguese.  
Email: [albin.stigo@gmail.com](mailto:albin.stigo@gmail.com)

Web: <https://sm6wjm.se>  
GitHub: <https://github.com/ast>  
Stack Overflow: <https://stackoverflow.com/users/982608/albin-stigo>

Senior Software Engineer, focus on real time signal processing.  
Doctor of Medicine, a specialist in anesthesiology and intensive care.  
Why do one thing when you can do two?

## Software engineering experience

- § 2023.11 → ongoing
  - Senior software engineer. Sensrad AB. <https://www.sensrad.com>.
    - C/C++/Golang/Rust. Advanced signal processing/perception for 4D automotive radar. Linux, ROS2, DDS, Docker, IP/Ethernet networking/routing.
- § 2022.03 → 2023.10
  - Senior software designer. Qamcom Technology and Research AB.
    - C++/C/Golang/Python development. Advanced signal processing/perception for 4D automotive radar. Linux. ROS2. Docker.
- § 2016.06 → 2019.01
  - Software engineer. Pluspole AB. Part time.
    - DSP algorithm development in fixed and floating point using Python with NumPy, SciPy, and Matplotlib. Embedded implementation in C. Design and testing of electronic hardware.
- § 2011 →
  - **Open Source projects** (selected):
    - <https://github.com/gnuradio/volk>. (C/C++/ARM assembly) VOLK is the Vector-Optimized Library of Kernels for GNU Radio. I have written most of the ARM-optimized kernels increasing performance as much as 14x.
    - <https://github.com/ast/SoapyAirspy>. (C++) SoapySDR driver for the Airspy Software Defined Radio.
    - <https://github.com/ast/SoapyPlutoSDR>. (C++) SoapySDR driver for the PlutoSDR.
- § 2011 → 2015
  - **Commercial projects** (Trifork Software) where I did all front and backend development:

- <http://diagnosekoder.dk> (Linux). Search engine web application for Danish ICD-10 codes.
  - Frontend: html5, JavaScript with jQuery and backbone.js.
  - Backend: Linux, Nginx, Golang, Elasticsearch, Python and shell script.
- UfL & DMJ (iOS). Official Danish Medical Journal iPhone and iPad application.
  - Frontend: Objective-C, Core Data.
  - Backend: Linux, Nginx, Python with Django, Postgresql.
- Instruksen.dk (iOS). Search engine for medical treatment guidelines.
  - Frontend: Objective-C, C, SQLite.
  - Backend: Linux, Nginx, Python and shell script.
- DCS (iOS). Official iPhone application of the Danish Society of Cardiology
  - Frontend: Objective-C, SQLite.
  - Backend: Linux, Nginx, Python with Django, PostgreSQL, shell script.
- Diagnosekoder (Android). Search engine application for Danish ICD-10 codes. Java, SQLite.

## Healthcare experience

- ⌘ 2020.09 → 2022.03
  - Specialist, anesthesia and intensive care, Sahlgrenska University Hospital, Sweden.
- ⌘ 2016.08 → 2020.08
  - Specialist training in anesthesiology and intensive care, Sahlgrenska University Hospital, Sweden.
- ⌘ 2016.03 → 2016.06
  - Primary health care physician, Hospital of Helgeland, Mo i Rana, Norway.
- ⌘ 2014.05 → 2015.10
  - Specialist training in anesthesiology and intensive care, Regional hospital of Silkeborg/Viborg, Denmark.
- ⌘ 2013.05 → 2014.04
  - Junior physician, Department of Orthopedic Surgery, Aarhus University Hospital, Denmark.
  - Junior physician, primary health care, Aarhus University Hospital, Denmark.
- ⌘ 2007 → 2013
  - Curator of anatomical specimens, Department of Anatomy, Aarhus University, Denmark.
- ⌘ 2006 → 2008
  - FADL temp nursing agency, Aarhus, Denmark.
- ⌘ 2006
  - Teaching Assistant, Department of Anatomy, Aarhus University, Denmark.

## Research

- ⌘ 2013.08
  - Visiting researcher. Brain Institute Bioinformatics group. Federal University of Rio Grande do Norte, Brazil.
- ⌘ 2011.08 → 2011.12
  - Research assistant. Laboratory of Space Medicine and Space Pharmacology. Magdeburg University Clinic, Germany.
- ⌘ 2009 → 2010
  - Research Assistant. Department of Anesthesiology and Intensive Care, Aarhus University Hospital and Aarhus University School of Engineering, Denmark.

## Publications

- ⌘ [\*An automated in vitro model for the evaluation of ultrasound modalities measuring myocardial deformation.\*](#) Cardiovasc Ultrasound. 2010 Sep 7;8:40. doi: 10.1186/1476-7120-8-40.

## University Education

- ⌘ 2005.08 → 2013.01
  - Doctor of Medicine, Aarhus University, Denmark.

## Courses

- ⌘ 2017.04
  - Pre-Hospital Care for anesthesiologists.
- ⌘ 2014.10
  - Advanced Trauma Life Support (ATLS)