

# Guðmundur Hjalmar Egilsson

Software Engineer experienced in embedded systems and sensor technology. Team player and open minded to new ideas and challenges.



## Work Experience

Apr. 2022 - present	<b>Software Engineer, Volvo Autonomous Solutions, Volvo Group</b> <ul style="list-style-type: none"><li>Development of an inhouse platform for autonomous driving.</li><li>Drivers for LiDAR and radar sensors.</li><li>Developed an automatic calibration method for LiDAR sensors that reduced calibration time from hours to seconds.</li></ul>
Apr. 2021 -	<b>Software Engineer, Powertrain, Volvo Group</b>
Apr. 2022	<ul style="list-style-type: none"><li>Drivers for micro controllers and analog sensors.</li><li>Work on system requirements.</li></ul>
Jan. 2020 -	<b>Software Engineer, Nexter Tech Talent</b>
Mar. 2021	<ul style="list-style-type: none"><li>Consultant at Volvo Powertrain.</li></ul>
Sept. 2019 -	<b>Control Engineer, Semcon AB</b>
Jan. 2020	<ul style="list-style-type: none"><li>Consultant in in-house projects.</li></ul>
Jun. - Aug. 2018,	<b>Member of Data Cleansing Team, Marel</b> <ul style="list-style-type: none"><li>Automatic and manual work assuring the quality of CAD data.</li></ul>
Jun. 2016 - Aug. 2017	<b>Summer intern, Stálsmiðjan Framtak</b> <ul style="list-style-type: none"><li>Metal workshop and ship repairs.</li></ul>
2008 - 2014	<b>Inventory manager, shift manager, and other roles, Krónan Supermarket</b> <ul style="list-style-type: none"><li>Managed shifts of 5 people from the age of 17.</li></ul>

## Education

Aug. 2017 -	<b>Chalmers University of Technology, M.Sc. in Systems, Control and Mechatronics</b>
Jun. 2019	<a href="#">Localization in a dense point cloud for ground truth estimation</a> - Combination of LiDAR and image data for precise and accurate localization.
Aug. 2013 -	<b>University of Iceland, B.Sc. in Mechanical Engineering</b>
Aug. 2015 -	<b>KTH, Stockholm</b> Exchange semester from University of Iceland.

## Programming languages

- C++17, C++20, extensive use of the C++ standard library.
- C, Python.

## Skills

- Sensor communication.
- 3D visualization using Foxglove Studio.
- Data serialization using the C++ *cereal* library.

## Tools and platforms

- Linux operating system.
- Git, Gitlab CI/CD.
- Microsoft Copilot, ChatGPT, and Claude.

## Other work and achievements

- [Homepage](#), [www.ghjalmar.is](http://www.ghjalmar.is)
- [Personal coding projects](#), [www.github.com/ghjalmar/](http://www.github.com/ghjalmar/)
- Winner of University of Iceland's robot design competition, February 2015

## Additional courses

- [Certified Scrum Master](#) by Scrum.org, 2020.
- [Communication and Leadership](#), 2016. Course aimed at building skills in human relations and leadership, given by Dale Carnegie in Iceland.

## Spoken languages

Fluent in:

- Swedish
- English
- Icelandic