

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	Software Engineer, Volvo Autonomous Solutions, Volvo Group <ul style="list-style-type: none">• Development of an inhouse platform for autonomous driving.• Drivers for LiDAR and radar sensors.• Developed an automatic calibration method for LiDAR sensors that reduced calibration time from hours to seconds.
Apr. 2021 – Apr. 2022	Software Engineer, Powertrain, Volvo Group <ul style="list-style-type: none">• Drivers for micro controllers and analog sensors.• Work on system requirements.
Jan. 2020 – Mar. 2021	Software Engineer, Nexer Tech Talent <ul style="list-style-type: none">• Consultant at Volvo Powertrain.
Sept. 2019 – Jan. 2020	Control Engineer, Semcon AB <ul style="list-style-type: none">• Consultant in in-house projects.
Jun. - Aug. 2018,	Member of Data Cleansing Team, Marel <ul style="list-style-type: none">• Automatic and manual work assuring the quality of CAD data.
Jun. 2016 – Aug. 2017	
Jun. - Aug. 2015	Summer intern, Stálsmiðjan Framtak <ul style="list-style-type: none">• Metal workshop and ship repairs.
2008 - 2014	Inventory manager, shift manager, and other roles, Krónan Supermarket <ul style="list-style-type: none">• Managed shifts of 5 people from the age of 17.

Education

Aug. 2017 – Jun. 2019	Chalmers University of Technology, M.Sc. in Systems, Control and Mechatronics
Master's thesis	Localization in a dense point cloud for ground truth estimation - Combination of LiDAR and image data for precise and accurate localization.
Aug. 2013 – Jun. 2016	University of Iceland, B.Sc. in Mechanical Engineering
Aug. 2015 – Jan. 2016	KTH, Stockholm 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
- **Personal coding projects**, 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