

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, Jun. 2016 – Aug. 2017	Member of Data Cleansing Team, Marel <ul style="list-style-type: none">Automatic and manual work assuring the quality of CAD data.
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.
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.

Education

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