

ALBERT INGI HARALDSSON

Electrical and Computer Engineer

📍 Hellisgata 3, Hafnaförður, 220, Iceland

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+ ABOUT ME

I have been working in research and development for over a decade, both in teams and independently. I have worked on everything from small circuit design to full scale AI development. In the beginning my main focus was on controls design and desktop development. Over the years I have moved more over to web development. I'm always eager to learn, and my strong background in computer engineering and programming have given me a great foundation to learn new technologies.

+ REFERENCES

- **Benedikt Hálfdanarson**
Vaki Aquaculture Systems Ltd. - CEO
Phone Number: 896-1630
- **Hólmgeir Guðmundsson**
VAKI Aquaculture Systems Ltd. - Chief Engineer
Phone Number: 860-1918

+ WORK EXPERIENCE

- VAKI Aquaculture Systems LTD APR 2013 - PRESENT
Kópavogur
RESEARCH AND DEVELOPMENT
 - Designed, built and programmed all aspects of VAKI's new SmartFlow system. The system automated live fish handling. See <https://vakiiceland.is/smart-flow-system/>
 - Designed and built a web application for VAKI's SmartFlow system - including backend, frontend and DNS. The app is built in Angular and uses Google Cloud as a service provider. Live demo: <https://smartflow.is/?id=VAKI86&name=Demo>
 - Aided in the design of a subsea camera system that tracks and analyzes fish. The system uses a deep neural detection network to track the fish.
 - Designed and built a waterproof industrial computer that communicates with VAKI pipeline counters. Embedded the OS and programmed the main application. See <https://vakiiceland.is/pipeline/>
 - Developed Density Control System, which addresses the issue of overcrowding during fish handling in hatcheries. Project was a finalist for the Aquanor Innovation Award 2021.
 - Implemented a Modbus system for VAKI's main products, allowing them to be integrated into SCADA system.
 - Assist and teach aquaculture system designers on how to integrate VAKI's product into their design.
- Keilir Atlantic Center of Excellence OCT 2014 - AUG 2016
Grænásbraut 910
DEPARTMENT OF MECHATRONICS/ TEACHER
 - PLC/PAC (Programmable Logic Controllers) - Summer 2016
 - Control Systems - Spring 2015
- University Of Iceland AUG 2012 - DEC 2013
Reykjavík
ASSISTANT TEACHER
 - Computer Science 2- Fall 2013
 - Digital Circuit Design and Analysis - Spring 2013
 - Computer Science 1 - Fall 2012

+ EDUCATION

- University Of Iceland 2019
Reykjavík
MASTER OF SCIENCE
Electrical and Computer Engineering
- Technical University Of Munich 2017
Munich
MASTER OF SCIENCE - EXCHANGE STUDENT
Elektrotechnik und Informationstechnik
- University Of Iceland 2013
Reykjavík
BACHELOR OF SCIENCE
Electrical and Computer Engineering

+ SKILLS

Java, JavaEE, JavaFX, Python,
TypeScript, JavaScript, Angular,
Node.Js

Google Cloud Platform, Git,
Firebase

Eagle CAD, AutoCAD
Electrical, Fusion 360

C, C++, C#

React, Docker, Kubernetes,
DevOps, AWS

Automatic Control Systems,
AC/DC Circuit, Digital Signal
Processing, Network Design

Power Systems, Embedded
System Design

+ HOBBIES

- In my leisure time I like to relax at the pools or with a good book, go out for walks and hikes, or on camping trips with the family. I also like to do carpentry and DIY projects around the house. One of my biggest passions in life is learning new things, especially about math, programming and technology. I regularly take online classes in new technologies to keep myself up to date in a fast changing world.