Curriculum Vitae

Hans-Martin Heyn, Ph.D., M.Sc.

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citations?hl=no&user=Pd5pmvQAAAAJ



01.2023 – today Senior Lecturer / Universitetslektor

Department of Computer Science, University of Gothenburg and Chalmers Uni-

versity of Technology, Göteborg

Research: Software Engineering for ML, Requirement Engineering, Functional

Safety, Distributed Systems

Teaching: LEU062: Computer Communication, DAT257: Agile Software Project

Management, DAT550: Software Engineering for AI

01.2021 – 12.2022 Postdoctoral Researcher

Department of Computer Science, University of Gothenburg, Göteborg

Requirement engineering for distributed AI systems; architectural frameworks for AI systems; EU Horizon 2020 project "Very Efficient Deep Learning in the IoT1". Teaching in Embedded System Design (DIT632). Supervisor for thesis students.

08.2019 – today Functional Safety Engineer and Function Developer

Volvo Group Trucks Technology (Volvo GTT), Göteborg

Function Development and functional safety work for autonomous vehicle platforms and advanced driver assistance systems. Scrum Master for agile team. Teaching courses in Functional Safety for Software (Part 6 ISO 26262) and Func-

tional Safety for Hardware Components (Part 5 ISO 26262).

11.2018 – 07.2019 **System Design Engineer**

Advance Engineering of Electrical and Software Architecture

Volvo Group Trucks Technology (Volvo GTT), Göteborg

System design for future E/E architectures and work on functional safety con-

cepts for autonomous vehicle functions (ESPLANDE² project).

09.2014 – 10.2018 Ph.D. Candidate, Marine Cybernetics

Centre for Autonomous Marine Operations and Systems (AMOS)

Norwegian University of Science and Technology (NTNU), Trondheim

Development of a distributed motion sensing system for ships.

Teaching TMR4243 Marine Control Systems Laboratory and lectures on battery diagnostics in TMR4290 Marine electric power systems. Supervisor for thesis stu-

dents.

08.2017 – 12.2017 Guest Researcher

DTU Elektro, Denmarks Technical University, Copenhagen (Lyngby)

Fault-tolerant control, detection of dangerous environmental conditions on ships.

10.2013 – 09.2014 **Research Engineer**

E.ON Energy Research Center, Aachen, Germany

Charging algorithms for large batteries and battery fault detection.



¹ https://www.vedliot.eu

² https://esplanade-project.se

07.2012 – 11.2012 Industrial internship

Auckland MRI Research Group / Siemens Healthcare, New Zealand

Automatic analysis of heart stroke volume in MR images.

Academic Details

05.2019	Ph.D., Marine Cybernetics Norwegian University of Science and Technology (NTNU), Trondheim, Norway Ph.D. thesis: Motion Sensing on Vessels Operating in Sea Ice.
10.2013 - 03.2016	M.Sc., Management, Business and Economics, RWTH Aachen University, Germany Master thesis: Route planning algorithm for electric logistic fleets in consideration of battery degradation.
10.2010 - 09.2013	M.Sc., Electrical Engineering, Information Technology and Computer Engineering, RWTH Aachen University, Germany Master thesis: Adaptive State- and Parameter Estimation for Lithium-Ion Batteries.
02.2012 – 12.2012	Studies abroad at University of Auckland, New Zealand Fields of study: Embedded System Design and Image Processing.
10.2007 - 09.2010	B.Sc., Electrical Engineering, Information Technology and Computer Engineering,

Awards

10.2007 – 09.2013 Scholar of the Evangelisches Studienwerk e.V. Villigst

RWTH Aachen University, Germany

Scholarship by the German federal ministry of education and research and the protestant church of Germany.

Bachelor thesis: Safety concepts for high voltage battery storage systems.

Language Abilities

German	mother tongue	Python	highly skilled	NI VeriStand (RCP) skilled
English	business fluent	Keras (Tensorflow)) skilled	SystemWeaver	skilled
Norwegian	business fluent	C and C++	skilled	Rust	skilled
Swedish	business fluent	OpenCV	skilled	Java	basics
MATLAB/Simulink	highly skilled	R	skilled		

Engagement

2022	Organisation committee for AIRE 2022 workshop
2021	Organisation committee for IEEE RE 2021 conference
2016 – 2018	Board member of a housing cooperative (Borettslag Paul Fjermstads veg 19A)
2015 – 2017	Board member of NTNUI's Cabin Group (NTNUI Koiene)
2010 – 2011	National Model United Nations in New York