

EMIL SEBASTIAN RØMER

Software Engineer at Ramboll Denmark & M.Sc. Software Engineering

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EXPERIENCE

Software Engineer

Ramboll Denmark

06-2017 - Ongoing Copenhagen

- Designing simulation software for Facilities Management.

Student Programmer

SDU, Mærsk McKinney Møller Institute

09 2015 - 06-2017 Odense M

- Building low-energy portable Bluetooth trackers for occupancy detection.

Intern

Ramboll Denmark

08-2016 - 12-2016 Copenhagen

- Researching simulation models for building decay.

Student Programmer

Powel Denmark

12-2013 - 08-2015 Kolding

- Developing systems dealing with nationwide utilities infrastructure.

3'rd Level IT Support (Volunteering)

Roskilde Festival

06-2013 - 07-2017 Roskilde

- Setup & IT support of festival infrastructure.

EDUCATION

M.Sc in Software Engineering

University of Southern Denmark

09-2014 - 06-2017

Thesis title: *Decision Support Systems for Budget Optimization of Building Management*

In collaboration with Ramboll Denmark, The Capital Region of Copenhagen & The Municipality of Hillerød.

B.Sc in Software Engineering

University of Southern Denmark

09-2012 - 06-2015

Bachelor thesis title: *Recognizing and Visualizing Energy Consumption Patterns of Buildings Using Data Mining*

In collaboration with the municipality of Odense.

LANGUAGES

Danish
English



PROJECTS

Image Recognition of Whales

Together in a team, we started building a system that would recognize individual North Atlantic Right Whales from images, to help a group of marine biologists with tracking the species.

Wifi Fingerprinting

Through the use of WiFi sniffing and statistical machine learning, in collaboration with a team, we dynamically built models of buildings and estimated the location of the sniffing phone.

Motion sensor

In a 4-month project, a team and I developed a sensor that registered people walking on a stair. Through the use of an Arduino, data would be collected on a server.

PROGRAMMING LANGUAGES

Python
Java
C#
R
C++
VB



SKILLS

Artificial Intelligence
Machine Learning
Simulation Modelling
Distributed Computing
Embedded Programming
Android Development
Web Development



RECOGNITIONS & PUBLICATIONS

Danfoss Engineering Tomorrow 2016
Winner: Bachelor thesis on energy consumption pattern recognition.

Publication
Clustering and Visualisation of Electricity Data to identify Demand Response Opportunities: Poster Abstract in collaboration with M.Sc Almir Mehanovic, Ph.D Jakob Hviid and Ph.D Mikkel Baun Kjærgaard.