

# 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.