



CAREER PROFILE

I am a highly motivated and eager to learn Software Engineer, currently working as a developer at Ci4Rail GmbH, Germany.

In the past i developed software and hardware for embedded systems, mainly for the automotive industry. Nowadays i am more into the cloud and kubernetes stuff.

I love to learn new things and to share my knowledge with others.

I am a team player and i like to work in a team.

I am also a fast learner and i am always open for new challenges.

I am a big fan of open source software.

If a open source project lacks a feature i need or has a bug, i'll try to add the feature or fix it.

Currently i am working on the open source **EdgeFarm** project.



EXPERIENCES

Senior R&D Engineer

2020 - Present

Ci4Rail GmbH, Nuremberg, Germany

Architecture and Developing of the open source project **EdgeFarm**. **EdgeFarm** is build for developers to support them in the development of complex IoT applications. By using **EdgeFarm** the developer can focus on the business logic only and does not have to worry about the infrastructure and the security of the application. **EdgeFarm** is a continuation of project **e1bb**. **EdgeFarm** is a cloud-native edge computing platform. It supports the deployment of edge applications and services on edge devices. It is based on Kubernetes and provides a set of tools to manage edge devices and applications. It contains the following components:

- **edgefarm.core**: The core component of the **EdgeFarm** platform. It is responsible for the management of edge devices and applications.
- **edgefarm.applications**: Allows the user to easily deploy workload to the edge devices.
- **edgefarm.network**: Provides the running applications to transfer gathered sensor data to the cloud. The cloud can aggregate data from multiple edge devices and provide the data to the user.
- **edgefarm.monitor**: Provides the user with a dashboard to monitor the status of the edge devices and applications as well the whole Kubernetes cluster.

Software Engineer

2017 - 2020

complement AG, Nuremberg, Germany

- Development of internal components of a semi-automatic kitchen appliance of the world market leader.
- Consulting in a project with digital signal processing.
- Basic architecture and implementation of **e1bb** - embedded Linux Building Blocks. The **e1bb** project was started to help developers of embedded Linux applications solve recurring problems without the developer having to worry about them.

Software Engineer

2016 - 2017

HSP Barschat & Krönert GmbH, Wendelstein, Germany

- Development of hardware-related software components for embedded systems and AMD64 platforms.
- Application for Digital signal processing application with GUI written in C# and .net.



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(<https://github.com/siredmar/siredmar.github.io/raw/a>:

EDUCATION

M.Eng. in Electrical Engineering
TH Nuremberg, Germany
2013 - 2014

B.Eng. in Electrical Engineering
TH Nuremberg, Germany
2005 - 2012

LANGUAGES

German (Native)

English (Professional)

INTERESTS

My Familiy

3D Printing

Cooking

Cosyst Control Systems GmbH, Nuremberg, Germany

- Development of hardware-related software components for embedded systems for Automotive applications.
- Software design and implementation of drivers and test software for hardware qualification.



SKILLS & PROFICIENCY

Golang



Linux & Shell Scripting



Docker



Git



CI / CD



Kubernetes



C/C++

