

# Loula BECK

## Embedded systems software developer

*Curious by nature, I am eager to discover and learn about technologies and how it can be applied to everything. Ready to tackle new challenges, from connected objects to highly constrained environments development.*

## Work experience

### Software engineer / SES Betzdorf, Luxembourg

Since October 2018

*Junior from 10-2018 to 03-2020*

Worked mainly on 2 projects;

**emergency.lu:** Initiative to bring connectivity to people in need. Involved in the VoIP service implementation.

**QUARTZ:** ESA project to distribute quantum keys via satellite. Implementation of the Key Management Service.

- Software design/architecture/validation
- Development: C++/Google tests/Python/Java/Objective-C
- Continuous integration
- ECSS standard

### Embedded Software Engineer / SES Betzdorf, Luxembourg

From February 2018 to August 2018

RoadSides Unit Project, connect moving or parking vehicles with a fixed communication structure via a wireless link :

- Hardware: Raspberry Pi/ LoPy
- Communication: LoRa/ MQTT/ Thingspeak Cloud
- Architecture: Microservices
- Development: Python/HTML/CSS

### School projects / INP-Ensimag France

From January 2017 to January 2018

**3D mono-camera:** Implementation of a scientific paper solution to extract depth with one camera

**Real-Time systems modeling:** illustration of real-time system with Lego Mindstorm

**OS development:** write an operating system for x86 (PC 32 bits) minimalist yet using the main concepts at the core of the Os.

- C/C++/Matlab
- Scheduling / Real-Time
- Memory handling
- System conception
- OS basics
- Concurrent programming/ Interruption handling

## Education

### Master of Engineering in Embedded software and systems / INP-Ensimag Grenoble, France

2018

### Bachelor in Physics, Electronics and Telecommunication / INP-Phelma Grenoble

2016

### PCSI/PC / Henri Poincaré Nancy, France

From 2013 to 2015

"Classe Préparatoire aux Grandes Écoles" :

- Intense training to enter French Engineering Schools

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📅 Date of birth 03/08/1995

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## Computer skills

C/C++

Python

Bash

VCS: Git/Mercurial

Java

SQL SQLite, MySQL, PostgreSQL

Objective-C

Angular/Ionic

Qt

## Skills

**Continuous Integration** Jenkins, SonarQube, Nexus Repository Management, Docker

**Cloud** Azure: Blob, IoT Hub

### Programming tools

- IDE: JetBrains tools, Eclipse, Visual Studio Code, Qt Creator
- VCS: Gitlab, GitHub, Mercurial
- Agile Project Management: Jira, Redmine, Trello

## Languages

**French** Mother tongue

**English** C1  
89/100 Bulats

**Spanish** B1

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