Karlo Siladi

Master of Science in Electrical Engineering and Information Technology

Embedded system engineer with 4 years experience designing connected products from scratch. I love prototyping, coding and learning on the side.

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WORK EXPERIENCE

In-Vehicle Infotainment System Engineer
Rimac Automobili d.o.o.

07/2021 - Present

M anufacturing electric hypercars and providing full technology solutions to global automotive manufacturers.

Achievements/Tasks

- HW and SW requirements and architectures for top-class Infotainment system

Embedded Hardware Engineer
Rimac Automobili d.o.o.

08/2019 - 08/2021   *Zagreb*

Achievements/Tasks

- Building infotainment system for the world's fastest car
- PCB designer and product owner of in-vehicle control unit
- Writing Bash and Python scripts for hardware test

Embedded Software Engineer
aconno GmbH - IoT made easy

12/2018 - 07/2019   *Zagreb*

*Your experts for **connected sensor** and **custom hardware development***

Achievements/Tasks

- C/C++ emebedded software developer for nRF52 powered BLE Beacons
- BLE IoT gateway using GL-AR300M modem running OpenWRT, crosscompiled C++ multithread structure
- FreeRTOS, debugging and programming using JTAG and makefile

Student Internship
Mobilisis

07/2018 - 10/2018   *Varaždin*

Intelligent fleet management, smart cities, systems and services for industrial automation technology

Achievements/Tasks

- Developing custom solution for gasoline tank door position detection
- Custom PCB based on nRF52 in Altium, firmware in C using Nordic SDK

EDUCATION

Master's degree in Electronic and Computer Engineering
University of Zagreb, Faculty of Electrical Engineering and Computing

2017 - 2019   *Zagreb, Croatia*

SKILLS

`PCB design` `C/C++` `Altium Designer` `Git` `Embedded Linux` `Automotive hardware design` `Python` `RTOS` `BLE` `Sensor node`

PERSONAL PROJECTS

Remote controlled robotic arm (09/2013 - 06/2014)
- Remote robotic arm control and monitoring
- Web site for remote monitoring and control using HTML, CSS, AJAX

Animal RFID identification device (10/2017 - 07/2018)
- Development of a handheld device used to identify an animal's electronic identification tag and web application for farm management and data visualization developed using PHP, Bootstrap, JavaScript, HTML, CSS
- Finalist of University Startup World Cup 2018, Kopenhagen, Denmark

Wireless Sensor Node Powered By Triboelectric Nanogenerator (01/2019 - 10/2019)
- Power management circuits development for sensor node periodically measuring the ambient temperature and sending the measurement through the BLE communication protocol
- Firmware for nRF52 family microcontroller was developed. Application for measurement visualization was developed in the Python programming language

ACHIEVEMENTS

Josip Lončar Award (2015)
Award for being in top 1 percent of your class

LANGUAGES

English
Full Professional Proficiency

INTERESTS

`Prototyping` `Web Development` `Handcrafting`