

## Contact

[www.linkedin.com/in/](https://www.linkedin.com/in/)

## Top Skills

Electronics

Microcontrollers

PCB Design

## Languages

Croatian (Native or Bilingual)

Slovenian (Professional Working)

German (Limited Working)

English (Full Professional)

## Certifications

AUTOSAR Classic Architecture

Functional Safety According to ISO 26262

Automotive Cybersecurity ISO 21434

Adaptive AUTOSAR

## Honors-Awards

Additional Honors & Awards

## Publications

Master's Thesis: Development of RFID/NFC based access control system

# Shadee Mcgilvary

Embedded Software Engineer at Samsung SDI Battery Systems GmbH

Austria

## Summary

Experienced Embedded Software Engineer with a demonstrated history of working in the Embedded industry. Skilled in SolidWorks, Electronics Hardware Design, Atmel AVR, Electrical Engineering, and LTSpice. Strong engineering professional with a Master's degree focused in Electrical and Electronics Engineering from University of Maribor, Faculty of Electrical Engineering and Computer Science.

## Experience

Samsung SDI Battery Systems GmbH

Embedded Software Engineer

February 2022 - Present (2 years)

Kalsdorf bei Austria

AUTOSAR Basic Software Engineer,

- > Embedded development for BMS (BSM, BMM and BDUE),

- > CDD Implementation, Cell configuration, Cell voltage/temperature measurement, Cell balancing, current measurement,

- > MCAL implementation, PWM, GPIO, NVM, DCM, DEM, MPU

- > Implementation of Watchdog and WdgTst for SBC,

- > DD in DOORS and EA for responsible BSW components,

- > Review of other BSW components as well DOORS and EA,

- > ASPICE, V-Model, ISO26262,

- > Part of FDT team,

- > Embedded C, Python, EB Tresos Studio, DaVinci Configurator, DaVinci

Developer, DOORS, EA, CANalyzer, CANape, TRACE32, Git, PTC,

Bitbucket, LT Spice, Scons, Collaborator, Tasking C, Mentor Graphics, Altium Designer

## Spyrosoft

Embedded Software Engineer

April 2021 - February 2022 (11 months)

Zagreb, Croatia

- > Embedded C/C++, Linux, QNX
- > Vector AUTOSAR Adaptive basic certificate
- > AUTOSAR Adaptive
- > Development Classic AUTOSAR & Adaptive AUTOSAR For Safety Path

## ZF Group

Embedded Software Engineer (External)

April 2021 - February 2022 (11 months)

Friedrichshafen, Baden-Württemberg, Germany

During my time in Spyrosoft I worked as External Embedded Software Engineer for ZF Group. I worked in the team which was responsible to implement driver for adaptive application on NVIDIA Xavier. Project was based on Adaptive AUTOSAR platform.

## Elektrobit

Embedded Software Engineer (External)

July 2019 - April 2021 (1 year 10 months)

Erlangen, Bavaria, Germany

## GlobalLogic

3 years 1 month

Embedded Software Engineer

January 2019 - April 2021 (2 years 4 months)

Zagreb, Croatia

- > Embedded C/C++, Python
- > MISRA guidelines
- > AUTOSAR Classic
- > Development of FOTA features for German manufacturer
- > Development of security features for master ECU
- > Vector CANoe, CANdela studio, EB Tresos Studio, Git, Gerrit, Tortoise SVN, TRACE32, Jenkins
- > Collaboration with Elektrobit

Junior Embedded Software Engineer

April 2018 - January 2019 (10 months)

Zagreb, Croatia

- > Embedded C, XML, XSLT
- > MISRA guidelines
- > AUTOSAR Classic
- > Worked on ICAS1 project for German manufacturer
- > ECU diagnostic on application level

- Vector CANoe, EB Tresos Studio, Perforce, Jenkins, winIDEA
- Collaboration with Continental

## Continental

Embedded Software Engineer (External)

April 2018 - July 2019 (1 year 4 months)

Regensburg, Bavaria, Germany

During my time in GlobalLogic I worked as External Embedded Software Engineer on projects for VW ID.3 and ID.4.

## MLC Electronic d.o.o.

Student Worker - Embedded Engineer

April 2017 - March 2018 (1 year)

Zagreb, Croatia

Embedded HW/SW Engineer for PCBs which are used in elevator industry. Technologies which I used in my daily work: Altium Designer, LTSpice, Embedded C, Keil uVision IDE, CANalyzer

## Byte Lab

Student Worker - Embedded Engineer

February 2017 - April 2017 (3 months)

Zagreb, Croatia

## Hrvatski Telekom

Student Worker - Customer Service Agent

July 2012 - June 2015 (3 years)

Zagreb

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## Education

Faculty of Electrical Engineering and Computer Science, University of Maribor

Doctor of Philosophy - PhD, Electrical and Electronics Engineering · (2020)

Faculty of Electrical Engineering and Computer Science, University of Maribor

Master's degree, Electrical and Electronics Engineering · (2015 - 2018)

Technical University of Applied Sciences Zagreb

Bachelor of Engineering (B.Eng.), Electrical, Electronics and Communications  
Engineering · (2010 - 2015)

I. technical school TESLA

High School, Electronics · (2006 - 2010)