

## Contact

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

## Top Skills

C (Programming Language)  
Python (Programming Language)  
MATLAB

## Publications

Positioning with 5G reference signals  
for vehicular applications  
5G-positioning for traffic safety and  
intelligent intersections

# Skylen Marcelle

Computer Engineer  
Austria

## Summary

I am fascinated by all aspects of working with data - from designing signal processing, machine learning and control algorithms down to implementing them on dedicated (embedded) processors and FPGAs.

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## Experience

### Elektrobit

Embedded Systems Engineer  
February 2023 - Present (1 year)  
Austria

- Application: high bandwidth data processing
- FPGA RTL and system design
- Embedded software development

### Technische Universität Wien

Research Engineer  
November 2022 - February 2023 (4 months)  
Vienna, Austria

Development of positioning methods for vehicular applications.

- 5G TDOA positioning
- 5G passive radar sensing
- FMCW radar positioning
- Particle filter sensor fusion

### Vienna University of Technology

1 year 9 months

### Research Engineer

March 2021 - June 2022 (1 year 4 months)

- Institute of Telecommunications
- Feature implementation and simulations for the "Vienna 5G System Level Simulator" research project
- Main platform: MATLAB

#### Student Tutor

October 2020 - February 2021 (5 months)

- Institute of Computer Engineering
- Tutor for lab "Operating Systems"

#### Vienna University of Technology

##### Student Tutor

March 2020 - August 2020 (6 months)

- Institute of Computer Engineering
- Tutor for lab „Digital Design and Computer Architecture“

#### TTTech

##### FPGA Firmware Developer

September 2019 - November 2019 (3 months)

- Implementation of FPGA modules with VHDL
- Embedded/SoC software development

#### TTControl

##### Embedded Linux Developer

July 2018 - August 2018 (2 months)

- Linux driver development
- Python-scripting
- CAN-Bus testing

#### TGW Logistics Group

##### Embedded Developer

July 2017 - July 2017 (1 month)

- Development of a CAN-Bus packet sniffing-tool in C++

#### Österreichisches Rotes Kreuz

##### Paramedic

September 2015 - May 2016 (9 months)

Pregarten, Upper Austria, Austria

- Licensed paramedic
- Licensed ambulance driver

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## Education

#### Vienna University of Technology

Diplom-Ingenieur / Master of Science - MS, Computer Engineering · (March 2020 - January 2023)

Vienna University of Technology

Bachelor of Science - BS, Computer Engineering · (October 2016 - March 2020)