

Dominik Kotarski

Education

- 2018–2020 **Master of Science in Computer Science**, *University of Zagreb, Faculty of Electrical Engineering and Computing*.
Computer science
- 2015–2018 **Bachelor of Science in Computer Engineering**, *University of Zagreb, Faculty of Electrical Engineering and Computing*.
Computer engineering

Undergraduate thesis

- Title *Short-term map building using Leddar sensors for autonomous parking of a vehicle*
- Mentor doc.dr.sc. Ivan Marković
- Abstract This thesis is concerned with locating a parking spot using a solid-state LiDAR generated short-term map. Detection of a parking spot is implemented in a simulated environment demonstrating performance of solid-state LiDAR sensors. In addition, migration to a real vehicle is enabled by setting-up solid-state LiDAR sensors, provided by Leddar Technologies, in the context of ROS.

Experience

- 2019–2020 **Embedded software developer**, *aconno*, Zagreb, Croatia.
Developed and maintained firmware responsible for a wide array of products based on nrf52832 SoC and nrf9160 SiP. Worked with c/c++ in an embedded context. Attained experience with system level programming on both bare metal and lightweight RTOS supported systems.
- 2020–Present **Software engineer**, *ZG Informatika*, Zagreb, Croatia.
Developing software across the web stack, specialising in React and Java

Job related skills

- Intro/basic Software design patterns, PCB design, VHDL, FPGA, Machine learning, C++, nrf9160, javascript, kotlin, LiDAR, ROS, assembler(x86)
- Intermediate Linux, networking, git, JAVA, nrf52832, React
- Advanced OOP, PYTHON, C

Languages

- Croatian Mother tongue
- English Proficient *Fluent in both written and spoken*
- German Basic *Basic phrases and words*

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