

Jan Koniarik

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date of birth 22.2.1994

Education

- 2014–2018 **Bachelor**, *Masaryk University*, Brno.
thesis: Software for remotely controlled quadruped robot.
- 2018–2020 **Master**, *Masaryk University*, Brno.
thesis: Motion planner for Schpin.
- 2020–now **Phd**, *Masaryk University*, Brno.
topic: Algorithms for legged robots.

Experience

Cooperation

- 2020–now **University of Defence**, *Czech Republic*.
Development and research of legged robots.

Teaching Assistant at Masaryk University

- 2016–now **Algorithms and data structures**.
- 2019–now **Teaching lab**.
Working on sideprojects from 2020.
- 2019–now **Onechip Controllers**.
Technical support.
In 2020: designed cloud platform for online education.
- 2020–now **Real Time Systems**.
Handling student projects.
- past **Programming in C++, Foundations of Programming**.

Industry

- 2014–2018 **Developer**, *Trustica s.r.o.*, Prague.
Administrator and developer of multiple instances of Request Tracker application.
Full app customization, management of servers and direct contact with customers.
Additionally, maintenance of 3D printers.
- 2018 **Embedded Developer/Intern**, *Y Soft*, Brno.
Development of color sensor for internal use by the company.

Competitions

- 2019 **Consultant**, *NXP CUP*, Nuremberg.
Consultant for a team of students developing autonomous cars.

Languages

English B2

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Focus

Motion planning Developing algorithms and implementation of software for control of legged robots.

Advanced software development Advanced usage of C++ language. Application of functional techniques. Study of longterm development models.

Soft Skills Focus on teaching skills at university. General interest in human psychology.

Hobbies

3D Printing Custom 3D printer.

Robots Developing various types of robots: flying drones, autonomous ships.

IoT Custom IoT home system, based on mosquitto,postgresql.