

# JAN KONIARIK

C++ Senior

📍 Brno, Czech Republic

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🌐 [github.com/koniarik](https://github.com/koniarik)

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## WHO AM I?

Establish your vision, goals, plan, execute, evaluate - dutifully do all steps of the process. Easy, right? All should work well like a clock. Except that... does it? Is your process working?

C++20 ARCHITECTURE EMBEDDED LINUX STM32  
REAL-TIME CI/CD TESTING GIT GOAL ORIENTED

## EXPERIENCE

09/2023 - now

**Senior software engineer**

Codasip

- Member of team handling initial processing of continually changing proprietary programming language: LSP server, parsing, diagnostics, analysis
- Took over a rewrite of the tool - lead small team creating a new generation of the software. Handled software architecture and team management. More than 10 times faster, more than 5 times easier to deliver new features, has unit tests.
- Handled architectural work for the team: work on specifying new language features, assessment of development cost. (Meta-programming facility, improvements to in-house preprocessor, dynamic integer)
- Acted as stand in for the team leader.
- Spawned <https://github.com/koniarik/vari> as a basic block for the development of a new generation of the tool.

C++ / Architecture / Testing / Language Design

01-09/2023  
part time

**Consultant**

Dronetag

Automatization of production testing.

C / Python / Zephyr / Embedded

2022 - 2023

**Software Engineer**

ISEE

Mentoring juniors, handling software quality, helping with architectural guidelines, developing middle-ware.

C++ / Real-Time / Middleware

2016 - 2024  
part time

**Teaching at university**

Masaryk University

- **Onechip Controllers** Lead the course, prepared content, exams, and managed teaching assistants.
- **Real Time Systems** Oversaw mandatory project.
- **Teaching Lab** Soft-skill course for future teaching assistants.
- **Others:** *Algorithms and data structures, Programming in C++, Foundations of Programming*

C++ / Middleware

2014 - 2018  
part time

**Developer**

Trustica s.r.o

Administrator and developer of multiple instances of ticketing system. Direct contact with customers

## NON PROFIT

2024	<b>TMOU 25</b> Logistics and production	Instruktoři Brno, z.s.
2024	<b>Slowdating City</b> Logistics and production of more sophisticated alternative to speed-dating	Instruktoři Brno, z.s.
2023	<b>TMOU 24</b> Logistics and production, build clock with 1 km diameter.	Instruktoři Brno, z.s.

## EDUCATION

2018 – 2020	<b>Phd - Failed</b> Low-cost legged robot, motion planning. C++ / ROS	Masaryk University
2018 – 2020	<b>Master's Degree</b> Motion planning. C++ / ROS	Masaryk University
2014 – 2018	<b>Bachelor's Degree</b> Software for legged robots. C++ / ROS	Masaryk University

## LANGUAGES

**Czech** - native  
**English** - efficient

## HOBBIES

Warhammer 40k figures.  
Open-source servo project:  
<https://github.com/emsro/servo>