

EDUCATION

PhD - Computer Science, Wrocław University of Science and Technology 2019 – present
MSc - Algorithmics, FFPT, Wrocław University of Science and Technology 2018 – 2019
BEng - Computer Science, FFPT, Wrocław University of Science and Technology 2015 – 2018

LANGUAGES

Polish native
English B2

PRIVATE PROJECTS

- **K(Kukos) lib set** ([github](#)) - set of new useful mini libraries like ([macros](#)), ([logger](#)), ([verbose assert](#)), ([unit test framework](#)). Code has been written in C99, C17, Cgnu17. Code has been written in C with a lot of Unit tests and functional tests in C using a simple set of macros from CLS. The code has been checked also by Valgrind.
- **Compiler** ([github](#)) - is a project from studies. We had simply custom architecture, simply language with grammar based on C/Pascal and we had to write a compiler that produces ASM mnemonics for custom arch from normal code. Code has been written in C, using CLS, Flex, and Bison. E2E tests have been reported in C as calls of some Linux commands.
- **Training materials** ([github](#) - code with a short video(videos are in my private repository) materials about C99, C macros, Big O notation, optimization and algorithms.
- **Dev training program** ([github](#)) - how to learn programming? How to improve technical skills? Just keep practicing! I created a list of some tasks which I analyzed and developed (not all) with junior developers. Tasks have 3 categories, benchmarks: when insert is better than quicksort?, algorithms: how to solve Vertex Cover problem?, development: write simply printf, shell, memcpy using avx.
- **Data base system simulator**([github](#)) - Still in progress. The code is written in C++14. The main goal of this project is to create a DBMS simulator to check different indexes and performance on different memories like SSD, PCM, and flash dies.

PAPERS

- W. Macyna, M. Kukowski, *Adaptive merging on phase change memory*, Fundamenta Informaticae. 2022, vol. 188
- W. Macyna M. Kukowski *Bulk loading of the secondary index in LSM-based stores for flash memory*, ADBIS 2022
- W. Macyna, M. Kukowski, *Partially indexing on flash memory*, DEXA 2019
- W. Macyna, M. Kukowski, *Flash-aware storage of the column oriented databases*, Fundamenta Informaticae. 2020, vol. 173

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