

# Albert Klinkovský

Bří Čapků 707, Krásno nad Bečvou, 757 01 Valašské Meziříčí

## PROJECTS

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### Interpreter

#### Lua compiler

#### Compiler for a subset of Lua language

The goal of this project was to create a compiler for a statically typed subset of Lua language named Teal. The compiler was written in pure C language. The compiler was able to compile a subset of Lua language to a bytecode which was then interpreted by a virtual machine.

#### Calculator parser / interpreter

Goal of this project was to implement lexer, parser and interpreter for a mathematical calculator. The mathematical expression is represented as a string such as "1 + 1" was converted to syntax tree data structure and then processed by interpreter which returns the result.

#### Acoustic localization system

This is a final project at the school. The aim of this project was to locate clapping in space. It was necessary to connect various disciplines, such as: mathematics, physics, electronics, software development. Most of the software was written using Python and the Numpy, Scipy, PyAudio libraries.

#### Signal generator

This is a semester project, where we had the task to create a program for the ARM processor, which was to generate a selected function using a DA converter. The FreeRTOS operating system was used.

## TECHNOLOGY SUMMARY

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<b>Programming</b>	Python (Numpy, SciPy), Lua, JavaScript, TypeScript, PHP, Bash, C, C++, Assembly, Rust, VHDL, HTML, XML, CSS, SASS, Markdown, Latex
<b>Software / Tools</b>	MS Office, Adobe CC, Blender, Ansible, Git (GitLab, GitHub, BitBucket), Trello, Grafana, Docker, UML
<b>Database</b>	MySQL, MariaDB, SQLite, PostgreSQL, InfluxDB, Redis, SQLAlchemy, Diesel (Rust)
<b>Frameworks</b>	Nette, Vue, React, Next.js, Django, Angular

## WORK EXPERIENCE

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### ERA a.s.

September 2021 – *Present*

I work with multiple teams using diverse languages and technologies. This has given me extensive knowledge and adaptability, allowing me to collaborate effectively, communicate technical information clearly, and troubleshoot efficiently. I am a versatile and skilled professional who delivers outstanding results.

### ON Semiconductor

June 2021 – September 2021

I have been working as intern in international team (US). My job was to work on frontend for Self Service Portal using Angular framework.

## EDUCATION

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**VSB Technical University of Ostrava**

Faculty of Information Technology.

September 2022 – *Present*

**Brno University of Technology**

Faculty of Information Technology.

September 2020 – June 2022

**Střední škola informatiky elektrotechniky a řemesel RpR.**

Field of study is electronic data processing.

September 2015 – June 2020