

# Zalka Ernő

Software Engineer Test Engineer

Fót, Hungary

+36 20 973 9213

ern0plus4+2023@gmail.com

<https://github.com/ern0>

## Skills

C ★★★★★★

C++ ★★★★★★

Python ★★★★★★

Linux Dev ★★★★★☆

Microservices ★★★★★☆

Embedded Systems ★★★★★★

Rust ★★★★★☆

SQL ★★★★★☆

Key-Value DB ★★★★★☆

PHP ★★★★★★

JavaScript ★★★★★☆

HTML/CSS ★★★★★☆

Java ★★★★★☆

Assembly, Demoscene ★★★★★☆

OOP Design ★★★★★★

Documentation ★★★★★★

Multithreading ★★★★★☆

Dataflow Systems ★★★★★★

Unit Testing ★★★★★☆

Integration Testing ★★★★★★

GIT ★★★★★★

Mentoring, Teaching ★★★★★☆

MUMPS ★★★★★★

ERP ★★★★★★

Image Editing, GIMP ★★★★★☆

Music Production ★★★★★★

## Languages

Hungarian ★★★★★★

English ★★★★★☆

Innovative and dedicated software developer, architect and mentor with experience in various fields and roles. Focused on long-term goals: quality, maintainability, smooth development process. Not only creates clean, modular, maintainable code, but inspires and helps others to do the same, educates and supports young talents. Enjoyed programming since teenager age and still does. Actual brain problem: learning Rust, created first crate and working on a larger multi-client system.

## Experience

### Test engineer

2023-2024

YottaDB LLC, contractor

\* Create integration tests (CSH, Expect, MUMPS) \*  
Implement/fix platform modules (C, Rust)

### Principal C++ Developer

2023

Harman-Kardon Kft.

Maintain automotive modules (C++)

### Principal embedded developer, product valid engineer

2019-2022

Heitec Kft.

Implement healthcare product firmware (C)

Create end-to-end test framework and tests (Python)

Create test applications for embedded devices (C, C++)

### Principal C++ developer

2017 – 2019

CAE Engineering Kft.

Implement flight simulator functions (C++)

Desing and implement tools (Python)

Mentoring developers, create educational materials (C, C++)

### Web frontend developer, test engineer

2016 – 2017

EcoStudio Kft.

Design and develop microservices architecture application (JavaScript, Node.js, Haxe, RethinkDB, RabbitMQ)

Create test framework and tests for microservices (Python, Hack)

Re-implement core Haxe functionality in Python

### Web developer

2013 – 2016

Netavis Kft.

Design and implement web client for video surveillance system

Creating smaller utilities (Python, PHP, Java)

### Principal embedded developer

2011 – 2013