

Filip Marić

Embedded Software Engineer

Osijek, Croatia

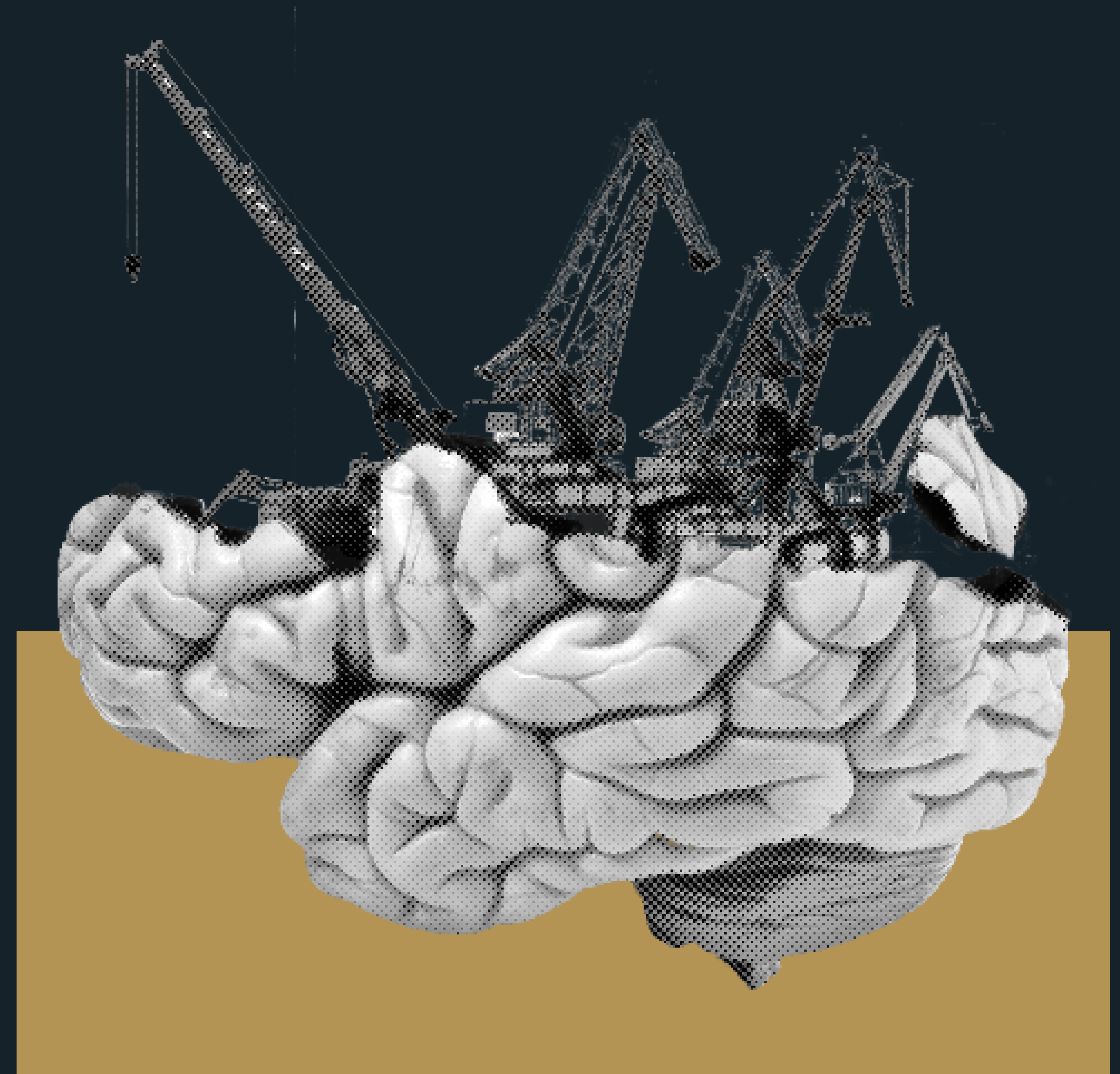
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<https://github.com/feelqah>

Embedded Software Engineer with 5 years experience in Embedded and Automotive field and an extensive range of skills including software development, debugging, task automation and software testing.

Also, I volunteer at a local dog shelter and try to live eco-friendly as possible with a DIY mindset (always trying to build stuff from scratch, no matter the field).



Dec 2018 - Jul 2020

RT-RK, Embedded Software Engineer

MotionWise project

The MotionWise project is a configurable Platform Software solution for Automotive ECUs (Electronic Control Unit) created by Austrian company TTTech.

- Writing internal tools in Python for the RT-RK custom testing framework
- Fixing bugs in the RT-RK custom testing framework
- Writing new features in Python for the RT-RK custom testing framework
- Writing APIs in Python for Wireshark, CANoe and internal TTTech tools
- Reading C source code of the MotionWise core features in order to implement platform tests in Python
- Writing and automating tests for the Time Synchronization feature of MotionWise
- Writing documentation for tests in PTC software
- Writing documentation for APIs in Python

Experience

Apr 2016 - Dec 2018

RT-RK, Embedded Software Engineer

Harman project - Automotive Digital Television system

Software components and turnkey solutions for in-car STB (Set Top Box) and TV products based on iWedia software.

- Developing STB features in C
- Debugging the software in GDB (multi-threaded C software)
- Creating a dynamic code analysis build using CLANG sanitizers

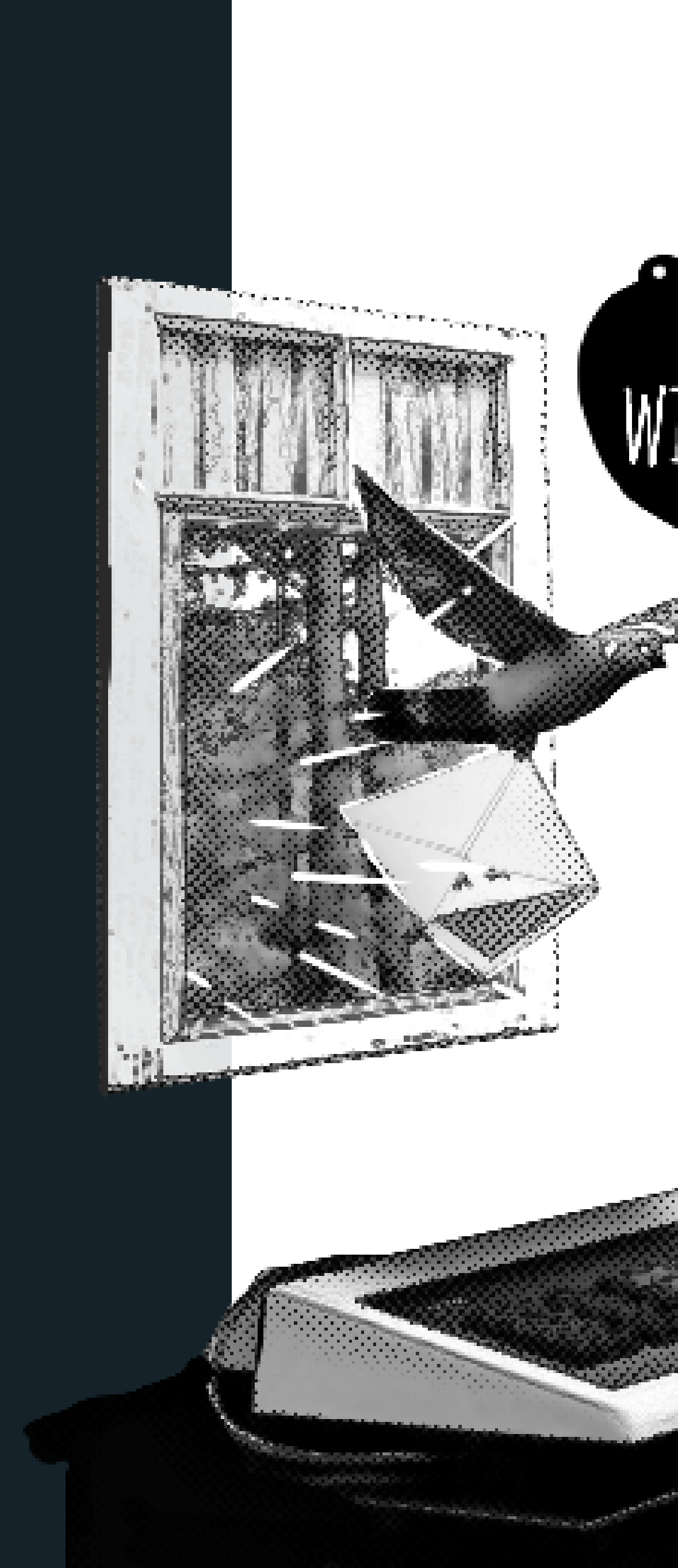
Feb 2016 - Apr 2016

RT-RK, Embedded Software Engineering Intern

Harman project - Automotive Digital Television system

Software components and turnkey solutions for in-car STB (Set Top Box) and TV products based on iWedia software.

- Debugging the software in GDB (multi-threaded C software)
- Performing dynamic code analysis using Valgrind



Jun 2015 - Feb 2016

RT-RK, Compiler Tools Engineering Intern

LLVM Project

The LLVM compiler infrastructure project is a collection of modular and reusable compiler and toolchain technologies used for developing compiler frontends and backends

- Implementing and maintaining LLVM support for MIPS and microMIPS processors
- Translating the MIPS ISA (Instruction Set Architecture) to LLVM's tableGen language
- Implementing MIPS instructions to the LLVM backend

Sep 2013 - Feb 2014

T-COM, Technical Support

Student job at Croatian Telecom T-COM

- Installing Operating Systems on customer PC's
- Diagnosing and fixing common PC hardware and software problems

Sep 2009 - Jun 2010

POINT, Computer Service Intern

Internship at a local computer service shop while in high school

- Installing Operating Systems on customer PC's
- Diagnosing and fixing common PC hardware and software problems

Education



2016

MASTER'S DEGREE – Computer Engineer

FACULTY OF ELECTRICAL ENGINEERING OSIJEK

Notable courses:

Computer Architecture, Computer Networks, Programming in C/C++, Operating Systems, Web programming and Real-time Computer Systems

Graduation paper:

Transport protocol Stream Control Transmission Protocol (SCTP) in distributed application development

2010

HIGH SCHOOL DIPLOMA – Electronics technician

ELECTRICAL ENGINEERING AND TRAFFIC SCHOOL OSIJEK

Notable classes:

Digital electronics, C Programming, Intro to Microprocessors, Robotics

Graduation paper:

Laser beam amplitude modulation

Electronics projects where sound from an mp3 player was sent over a laser beam to a photoresistor which was connected to an amplifier and a speaker

SKILLS

- C language
- Python language
- Git
- Linux
- Operating Systems concepts
- Basic networking concepts
- Basic web scraping knowledge
- Basic web development (HTML, CSS, JS, PHP)
- Strong problem solving and debugging skills
- Creativity and ability to learn quickly
- Exceptional communication
- Successful working in a team environment, as well as independently The ability to work under pressure and multi-task
- The ability to follow instructions and deliver quality results
- The ability to quickly come up to speed on new projects

INTERESTS

- Software Development Electronics
- Cyber Security
- Ethical Hacking Physics
- Eastern Philosophy Psychology Everything
DIY Permaculture gardening
- Animal Welfare Social Justice Activism

Get in touch

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