DAVID GRUBEŠIĆ

BSc in Computer Engineering · Programs for offices, personal tools, research on AI agents.

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A PROFILE

Bachelor of computer engineering (Faculty of Engineering, University of Rijeka). I design small programs for offices that replace Excel sheets and paper forms and run on the office's own computers, offline. AI coding agents write the code to my plan.

B WORK AND PROJECTS

B.01 **Independent: programs for offices** — 09/2026 - NOW, Rijeka

I talk with the client about what the office does by hand, design the program, direct AI agents through the build and test the result (Windows programs in virtual machines).

Working-hours record	Bilanca d.o.o.	monthly record per Croatian regulation, finished Excel sheet
Arhiva	Bilanca d.o.o.	encrypted backups of three computers to a USB disk that is disconnected between runs
Travel orders	SAING d.o.o.	travel orders and expense reports, finished Word documents with signatures

B.02 **Lab for testing AI agents (thesis)** — 09/2026, Rijeka

Isolated lab of Windows 11 virtual machines (QEMU/KVM, Docker). Control panel for cloning machines and testing in parallel, starting test runs and viewing results as graphs. Several kinds of hidden-instruction attacks, automatic detection of successful attacks, model selection and result storage.

B.03 **Talk: Can You Trust Your Agent?** — 09/2026, Baška SIF Meeting 2026, Krk

Research results: agents refuse a malicious instruction in a message or tool output, but carry it out when it sits in the project's own instruction file (AGENTS.md). A passive monitor outside the agent caught every forbidden action.

B.04 **Personal tools and a design-instruction catalogue** — 2026

Nine tools for my own Linux computer: file manager, password manager with a Chrome extension, Word document editor with its own page layout, mouse and keyboard-lighting control. A catalogue of 427 instructions that teach AI agents to design, with search and filters.

C EDUCATION

Computer engineering, bachelor's · Faculty of Engineering, Rijeka — 09/2020 - 09/2026

Thesis: Implementation and Evaluation of Autonomous AI Agents in an Isolated Laboratory Environment.

Grammar school · Prva sušačka hrvatska gimnazija, Rijeka — 09/2015 - 07/2019

D EMPLOYMENT

Bartender · BYBLOS V d.o.o., Poreč — SUMMERS 2024, 2025

Night shifts in a club.

Programmer, internship · Asseco SEE d.o.o. — 06/2022 - 09/2022

App development in Swift.

Field worker and waiter · Viniart d.o.o., Rijeka — AUTUMNS 2020, 2021

Working with visitors and the team.

Internship · Strojarsko akustički inženjering d.o.o. (SAING) — 07/2019 - 08/2019

Technical field and work environment.

E SKILLS AND LANGUAGES

TECHNICAL	PERSONAL	LANGUAGES
AI coding agents	Communication	Croatian: native
Evaluation and security of AI agents	Adaptability	**English: C2**
Virtualisation (QEMU/KVM, Docker)	Teamwork	**German: A1**
Windows 11, Linux (Arch)	Technical analysis	
Git and GitHub		