Adrián Rovňan

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Summary

I'm a Computer Engineering student with a strong interest in embedded systems, low-level development, and networking. I've gained hands-on experience with C/C++, embedded platforms such as ESP32, ATmega328P, and Raspberry Pi Pico, along with basic electronics and digital logic design. I also hold a CCNA certification, which gave me a solid foundation in computer networking. My academic projects include a C-based management system, a data structures and algorithms library, and various embedded applications.

Skills

C • SQL • Linux • Java • Embedded Devices • JavaScript • React • Next.js

Projects

Car store management system

Oct 2024 – Jan 2025 • 3 mos

1 coworker

Technologies: C

Developed a console-based car store management system in C as part of my bachelor's subject. The goal was to create a complex application using dynamic memory allocation and pointer arithmetic. The project includes a Makefile for building, supports basic management features (adding, removing, listing cars), and can persist store data to a file.

Data Structures & Algorithms Library

Jun 2025 – present

1 coworker

Technologies: C • Data structure • Algorithm

Built a custom C library implementing commonly used data structures and algorithms, including linked lists, stacks, queues, and sorting/searching algorithms. The project uses CMake for building and includes unit tests written with CUnit.

Raspberry Pi Pico Weather Station

Jul 2025 – present

1 coworker

Technologies: C • Embedded RTOS • Embedded Systems • Embedded Devices • Ccna

Created a simple weather station in C using the Raspberry Pi Pico microcontroller. The system uses the Raspberry Pi Pico C SDK, FreeRTOS, and data structures from my custom DSA library. It includes an HTTP server (using the cyw43 Wi-Fi driver) to serve a static web page that displays real-time temperature readings from the internal temperature sensor via the ADC.

Education

Bachelor's degree: Computer Engineering

Sep 2023 – Jun 2026 • 2 yrs 9 mos

University of Žilina - Faculty Management science and informatics

Žilina, Slovakia

Secondary School Leaving Certificate (Maturita): Information systems and services

Sep 2019 – Jun 2023 • 3 yrs 9 mos

SSOŠ Pro Scholaris

Žilina, Slovakia

Certifications & Awards

NDG Linux Essentials - Cisco	Mar 2024
CCNA: Introduction to Networks - Cisco	Jun 2024
React Foundations for Next.js - Vercel	Aug 2025
Next.js Pages Router Fundamentals - Vercel	Aug 2025
Next.js App Router Fundamentals - Vercel	Aug 2025

Languages

Slovak (Native or bilingual proficiency)

English (Full professional proficiency)