



# Rok Vidmar

IT and QA Engineer

## ABOUT

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Last Updated: November, 2024

## EDUCATION

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### Master in Electrical Engineering

2019-2022 | University of Ljubljana

Emphasis of my studies was on ICT. Wrote a master thesis about different VPN solutions available in 2022.

## EXPERIENCES

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### CxT Technical Lead at Plume Design Inc.

November 2022 - Present  
at the company from April 2021

Maintaining testing environment for CxT testing (L2, L3 networking). Maintaining test plans. Reporting and debugging software issues - embedded, mobile. Introducing innovation in scope of our team and our company. Testing network equipment.

### IT Consulting

2020 - Present

Advising and maintaining IT infrastructure for startups. Maintaining VPN environment/backups for companies. Automating backup system based on restic/borg. Helping develop system architecture for cloud managed PV solution.

## PERSONAL PROJECTS

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### Personal finance logger

2024 | Google AppScript - Google Sheets

I designed an application for personal finance logging that lives completely free in your google account (if you're willing to pay the data toll to our friendly neighbourhood tech giant).

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[Blog link](#)

[GitHub Repository](#)

## Storm Alert

2024 | Python

A script that uses API from Slovenian Environmental Agency for detecting a storm in your area. It is used for smart house application to do actions in case of heavy rainfall. It also function with SQL database to log rainfall radar data.

Script also includes 2D transformation for area of Slovenia to get position on radar image (pixel) from longitude and latitude.

[Blog link](#)

[GitHub Repository](#)

## PUBLICATIONS

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2022 | Master's Thesis

### Evaluating ZeroTier Virtual Private Network against competing solutions

In this thesis, we addressed emerging free to use VPN solutions. We have focused on ZeroTier VPN solution, which works fundamentally different from conventional VPN. Clients of ZeroTier network authenticate on a server, and then form a peer-to-peer network. Results of testing have shown that the most mature solution for industry is OpenVPN. WireGuard is a very efficient protocol with great potential.

[Thesis Link](#)

2022 | Patent

### Connected device control using Multi Access Point WiFi Systems

[Link](#)

2023 | Patent

### Computerized systems and methods for wireless roaming simulation

[Link](#)

2024 | Patent

### Method for authenticating user using gestures and/or locomotive movements

[Link](#)

2024 | Patent

### System that enables gesture-based control of connected devices

[Link](#)

## SKILLS

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★★★★★

Software Testing

Networking

Bash

Python

RPi

Linux

Creative problem solving

★★★★★

Docker

Home Assistant - Home Automation

RStudio

★★★

PHP

SQL

C++

#### **Other skills**

Photography

Adobe Photoshop

Adobe Illustrator

Adobe Premiere