

# Urban Prah

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**Date of birth:** 04/09/1999 | **Place of birth:** Maribor, Slovenia | **Nationality:** Slovenian | **Gender:** Male |  
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**Address:** Poljčane, Slovenia (Home)

## ● ABOUT MYSELF

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Master's degree candidate at the University of Maribor with a strong focus on precision, organization, and methodical problem-solving. Committed to clean, efficient, and modular work, with a preference for minimalism in both programming and broader workflows. Comfortable in collaborative environments and often take initiative in leadership roles when opportunities arise. Outside of academics, actively involved in sport climbing—initially as a personal pursuit, now expanded to include coaching and routesetting.

## ● EDUCATION & TRAINING

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01/01/2014 - 01/01/2018 - MARIBOR, SLOVENIA

### **GRAMMAR SCHOOL- II. GIMNAZIJA MARIBOR**

Attended II. gimnazija Maribor, built a desktop computer from parts and set up a hackintosh system. I was very busy, participating in many extracurricular activities.

01/10/2018 - 08/09/2022 - MARIBOR, SLOVENIA

### **GRADUATED WITH A BACHELOR'S DEGREE- UNIVERSITY OF MARIBOR**

Finished undergraduate studies at University of Maribor with a bachelor's thesis titled [On-board data capture and compression on TRISAT-R nanosatellite](#) . About a year later an [image](#) of the Earth was successfully captured and transmitted from the satellite.

03/01/2025 - 30/06/2025 - TARRAGONA, SPAIN

### **ERAZMUS+ EXCHANGE- UNIVERSITAT ROVIRA I VIRGILI**

Attended a 6 month exchange in Tarragona, Spain where I worked on my thesis and completed a Spanish lesson. I met new people and worked remotely.

01/10/2022 - Current - MARIBOR, SLOVENIA

### **POSTGRADUATE STUDIES- UNIVERSITY OF MARIBOR**

Continuing studies in the same field, I chose a study module focused on artificial intelligence. This is where I study currently in pursuit of a Master's degree which is a part of my current work on the SARA project, regarding autonomous locomotion based on reinforcement learning.

## ● WORK EXPERIENCE

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01/07/2015 - 01/12/2017 - MARIBOR, SLOVENIA

### **SOFTWARE TESTER AVL LIST GMBH**

My first work experience. Writing and revising existing documentation for the company's GUI software AVL Boost and AVL Fire.

Automating unit tests with Eggplant scripts. Test running meta-framework, logging system, model creator

utility, automated result reporting (CSV log parser), testing work flow, weekly progress reports, meetings, software prototyping, etc.

01/03/2018 - 01/10/2019 - MARIBOR, SLOVENIA

### **SOFTWARE DESIGNER** AVL LIST GMBH

Mixed software testing (GUI and unit) using python. Design and implementation of a generic testing tool that reads a given project, recreates it and compares it with the original. Prototyping, creating an OOP model that reflects the project structure, using software's API manipulator functions to simulate a user behavior, error handling, result analysis.

01/03/2020 - 01/10/2020

### **PROGRAMMER** INTECHCORE GMBH

Remote work during the pandemic. Project maintenance and refactoring, java-like programming language development. Language self-testing and unit testing. Visitor pattern, ANTLR.

01/10/2021 - 30/09/2025 - MARIBOR, SLOVENIA

### **EMBEDDED SOFTWARE PROGRAMMER** UNIVERSITY OF MARIBOR

#### **TRISAT-R**

Writing and testing firmware for the ADCS and OBC subsystems. Processing on-board sensor data (gyroscopes, sun sensors, magnetometer, GPS) to perform satellite detumbling and reorientation using its magnetorquer actuators. Implementing image capture, logging and task scheduling functionality. [Article](#) .

#### **SARA**

R&D for an unmanned arachnid-shaped space vehicle based on ROS2. Developing the software responsible for remote control and autonomous locomotion. Work includes simulation, system architecture design, RISC-V embedded firmware implementation, reinforcement learning with PPO, etc.

01/10/2025 - CURRENT - MARIBOR, SLOVENIA

### **SOFTWARE ENGINEER** SKYLABS D.O.O.

Ground-segment tasks for satellite missions, robotic software design.

## ● **SKILLS**

Atlassian tools (Jira, Confluence, Bitbucket) | Microsoft Office | provide software testing documentation | execute software tests | Python (computer programming) | embedded systems | Good understanding of microcontroller architectures, Bluetooth LE, ZigBee, SPI, UART, freeRTOS | Knowledge of FreeRTOS | Eggplant Functional | C++ | C99 | Experience with Robot Operating System (ROS) and Linux (ROS1 and ROS2) | machine learning | Reinforcement learning | NVIDIA Isaac Sim | Linux Yocto Embedded (Basic) | tools for software configuration management | Nix deterministic build tool | Linux system administration (Debian, Ubuntu, NixOS, ArchLinux) | robotics

## ● **LANGUAGE SKILLS**

Mother tongue(s): **SLOVENIAN**

	<b>UNDERSTANDING</b>		<b>SPEAKING</b>		<b>WRITING</b>
	Listening	Reading	Spoken production	Spoken interaction	
<b>ENGLISH</b>	B2	B2	B2	B2	B2
<b>SPANISH</b>	A2	A2	A2	A2	A2