

EDUCATION

Intelligent Transportation Systems

September 2024 – Present

Faculty of Transportation Sciences, CTU in Prague / Linköping University

Double-degree master's program in cooperation with Linköping University. First year studied in Prague, second year in Norrköping, Sweden.

Technology in Transportation and Telecommunications

September 2021 – September 2024

Faculty of Transportation Sciences, CTU in Prague

Bachelor's program, specialization: *Intelligent Transport Systems*. Graduated with honors.

WORK EXPERIENCE

IT Technician

May 2023 – July 2025

Faculty of Transportation Sciences, CTU in Prague

Part-time

- Progressed from L1 support to broader responsibilities in network, systems, and server administration, including scripting and basic development of internal tools.
- Provided user support and troubleshooting for hardware, software, server, and network-related issues.
- Performed maintenance, configuration, deployment, and replacement of end-user devices and classroom IT equipment.
- Supported system administration, including Active Directory, account management, workstation deployment, and basic server administration.
- Supported network administration, configuration, and deployment using Cisco, Aruba, and Ubiquiti technologies.
- Maintained and updated manuals, technical documentation, and internal support materials.

PROJECTS

Design of a Message Verification System for C-ITS

September 2024

Bachelor's Thesis

- Developed a tool for analyzing and verifying compliance of C-ITS messages with current standards, actively used for research within the CertiLab laboratory.
- Researched the current state and future development of C-ITS implementation in the Czech Republic and abroad.
- Worked with legislative and standardization documents in the field of Intelligent Transport Systems.
- The thesis has been awarded by the Dean of the Faculty.

Incorporating telecommunication features for V2I and I2V in microscopic traffic simulation

June 2026

Master's Thesis

- Written in collaboration with Swedish National Road and Transport Research Institute (VTI), this thesis explores the state-of-the-art in analytical models of wireless communication in C-ITS.
- Development of a two-way integration platform which couples analytical models with microscopic traffic simulation tools, allowing to simulate the real-world reliability constraints of C-ITS communication based on traffic state.
- Evaluation of the impact on traffic management algorithms in simulation.

SKILLS

Software	Python; MATLAB; PHP; SQL; R; Bash; PowerShell; Git; Docker
Technologies	Linux; Windows Server; TCP/IP; Active Directory; virtualization; Wi-Fi; Ethernet
Experience	traffic simulation; data analysis; positioning systems; system integration; technical documentation; testing; log analysis
Languages	Czech (native); English (professional); German (basic)