



Georg Adrian Novotny

Date of birth: 03/04/1993 | **Nationality:** Austrian | **Phone:** (+43) 6504420681 (Mobile) | **Email:**

georg.novotny@chello.at | **Website:** <https://novog93.github.io/> | **Website:**
<https://www.roboticscontentlab.com/> | **github:** <https://github.com/novoG93/> |

Address: Inzersdorfer Straße 61/4, 1100, Wien, Austria (Home)

WORK EXPERIENCE

 **MIC DATENVERARBEITUNG GMBH – WIEN, AUSTRIA**

PLATFORM ENGINEER – 15/05/2023 – CURRENT

- Designing, developing, and maintaining CI/CD pipelines using Jenkins to automate and optimize software delivery processes
- Setting up and maintaining Kubernetes-related tools such as ArgoCD, Jenkins, Keycloak, and Harbor, leveraging GitOps practices for efficient and automated operations
- Creating and optimizing container images for various applications, ensuring seamless deployment and compatibility across environments
- Migrating applications to Helm Library and Application Charts, standardizing deployments and improving flexibility within Kubernetes clusters
- Deploying and troubleshooting cloud-based applications, addressing performance and stability challenges in production and staging environments
- Developing and maintaining a local development environment that replicates cloud-like deployment conditions, enabling developers to test and validate applications in a consistent and production-like setting

 **EBE MOBILITY & GREEN ENERGY GMBH – VIENNA, AUSTRIA**

CI/CD ENGINEER – 01/10/2022 – 30/03/2023

- Implementation Self-Hosted Gitlab Instance
- Gitlab CI/CD based on self-hosted Docker container
- Gitlab - Openproject implementation
- Server monitoring and management
- Development of Java applications and solutions in the field of e-mobility, charging controllers and charging station control

 **FH TECHNIKUM WIEN – WIEN, AUSTRIA**

JUNIOUR RESEARCHER / LEKTOR – 09/2018 – 31/07/2024

Lector for various laboratory exercises

Developer and Maintainer of ROS Docker image for students

Collaboration on projects:

Autonomous Land Systems

- Implementing/developing software modules for a Search and Rescue robot
- Containerization of software modules
- System maintenance

Engineering Goes International (ENGINE)

- Software development

IoCESST (Internationalization of the Curricula in Engineering, Environmental, Smart Cities and Sport Technologies)

- Development of the curriculum of the Mobile Robotics Lecture
- Giving lectures in Mobile Robotics

System Architect for Search and Rescue Robot

- Development of a systemd and container based management system for ROS/ROS 2 applications
- Sensor Integration and Calibration
- Implementation of 2D and 3D mapping
- Autonomous Drive with FlexBE behaviors

 **JOHANNES KEPLER UNIVERSITY – LINZ, AUSTRIA**

UNIVERSITY ASSISTANT – 31/12/2019 – 30/09/2022

Exercise for courses:

- Python Programming for Economic and Business Analytics
- Einführung in die Softwareentwicklung mit Python

Collaboration on projects:

Last Mile Delivery Robot

- 2D and 3D SLAM
- ROI Detection
- Path Planner

Intelligent Car

- Communication Layer car CAN-PC implementation
- Sensor mount design for various exteroceptive/proprioceptive sensors
- Implementation of high level ADAS state machine (SAE 2)

 **FH TECHNIKUM WIEN** – WIEN, AUSTRIA

SOFTWARE DEVELOPER – 15/02/2018 – 27/05/2018

- Bash-scripts
- Various Robot Operating System implementations (2.5D SLAM, localisation, autonomous drive)

● EDUCATION AND TRAINING

28/02/2022 – CURRENT Linz, Austria

PHD Johannes Kepler University

Website <https://www.jku.at/en/intelligent-transport-systems/>

08/2016 – 08/2018 Wien

MSC IN MECHATRONIK/ROBOTIK FH Technikum Wien

- Electronics
- Modern programming Concepts
- Advanced Sensor Systems
- Rapid Prototyping

2012 – 05/2016 Wien, Austria

BSC IN MECHATRONIK/ROBOTIK FH Technikum Wien

- Mechanics
- Mathematics
- Industrial Robotics
- Programming
- Projectmanagement
- Technical Labors

● LANGUAGE SKILLS

Mother tongue(s): **GERMAN**

Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
ENGLISCH	B2	B2	B2	B2	B2

Levels: A1 and A2: Basic user - B1 and B2: Independent user - C1 and C2: Proficient user

● SKILLS

Travis CI | Github Actions | Docker Container | Python | Jenkins | Docker | Linux | Git | Object-oriented-programming | C++ | bash-script | C | GitOPS | Kubernetes | Argocd | kustomize | PWSH | Portal Azure | Helm

● PUBLICATIONS

2024

[UGV-CBRN: An Unmanned Ground Vehicle for Chemical, Biological, Radiological, and Nuclear Disaster Response](#)

2023

[Vehicle Side-Slip Angle Estimation under Snowy Conditions using Machine Learning](#)

2022

[Autonomous Vehicle Calibration via Linear Optimization](#)

2020

[Design and Implementation of a Mobile Search and Rescue Robot](#)

2020

[Mobile Delivery Robots: Mixed Reality-Based Simulation Relying on ROS and Unity 3D](#)

2020

[Evaluierung von Navigationsmethoden für mobile Roboter](#)

2020

[Autonomous Vehicles: Vehicle Parameter Estimation Using Variational Bayes and Kinematics](#)

2019

[A Mobile Robot Platform for Search and Rescue Applications](#)

2018

[Estimating a Sparse Representation of Gaussian Processes Using Global Optimization and the Bayesian Information Criterion](#)

● ORGANISATIONAL SKILLS

Organisational skills

- Basic project management seminar

● COMMUNICATION AND INTERPERSONAL SKILLS

Communication and interpersonal skills

- Communication and team building seminar