



GUSZTÁV OTTRUBAY




Software



Research



Social Innovations

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 **Vienna**

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EDUCATION

Master

2019 - 2023

Robotics and Mechatronics, TU Munich

Thesis: „Development of a full cost-based and multimodal route planner as an interactive web app“

Bachelor

2015 - 2019

Mechanical Engineering, TU Munich

Thesis: „Development of a simulation software to determine the energy consumption of BEVs“

SKILLS

- Frontend development (Dart/Flutter)
- Backend development (Python/Flask and Django) and SQL
- Data analysis and visualization
- APIs, version control, CI/CD
- Project management
- Research and prototyping
- Communication, teamwork, joy

PROGRAMMING LANGUAGES

- Proficient: Dart, Python
- Intermediate: C#, Matlab, SQL, Kotlin
- Basic: Java, C, C++

PROFILE

I am a software developer and research engineer with 4+ years of experience (2 yrs part-time plus 2 yrs full-time) in research, software design, development, prototyping, and deployment. Specialized in web-based solutions and data analysis using Flutter, Python, GIS software and APIs. I love research-driven, multidisciplinary teams, contributing to technically demanding projects focused on sustainable mobility and social causes. My expertise also extends to project management, overseeing funding processes, and collaborating with partners to solve technical and diverse challenges—all as a dedicated team player with a lot of enthusiasm and joy.

WORK EXPERIENCE

SOFTWARE AND PRODUCT DEVELOPMENT

Sensatech GmbH (LLC) Vienna

October 2022 - July 2024

- Co-founder of a software company with the motto “Software development with purpose”
- Main project: “AmigoBox”, a highly usable app for digital communication for the elderly and people with disabilities
- Development of user-friendly software in the social and healthcare sector
- Design and development of web and mobile apps in Flutter
- CAD-Design and 3D print of simple hardware components
- Project management, preparation of funding applications, workshops

SOFTWARE DEVELOPMENT, RESEARCH AND PROJECT MANAGEMENT

OSSI Austria - Open Source for Social Inclusion Vienna

June 2020 - present

- Co-founder; Research projects in the open-source field
- Research, design, development, and testing of open-source prototypes in the AAL field
- Project lead of “AK DigiBox”, a research project funded by the Chamber of Labour Vienna (AK Wien)
- Design and implementing web apps in Dart (Flutter)
- Planning and moderation of interdisciplinary workshops with project partners and/or target audience
- Project management, funding management, finances



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LANGUGES

- Native: German, Hungarian
- Fluent: English
- Good: Spanish
- Basic: Italian (currently learning), French

INTERESTS

- Sports (tennis, volleyball, surfing)
- Sewing and DIY
- Music
- Languages (currently learning Italian)

OTHER EXPERIENCES

- Exchange Semester in Madrid
- German and English teaching assistant in India and Columbia

REFERENCES

Florian Hintermeier

Co-founder Sensatech LLC
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Daniel Schröder

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Julia Kinigadner

TU Munich - Project Lead SASIM
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LINKS TO MENTIONED PROJECTS



WORK EXPERIENCE (FREELANCING)

SOFTWARE DEVELOPMENT AND RESEARCH IN SUSTAINABLE URBAN MOBILITY
TU Munich/MCube Cluster for Future Mobility
October 2022 - current

- Development of an interactive web application for calculating full costs in urban mobility (project "SASIM")
- Frontend in Dart (Flutter) and backend in Python (Flask)
- Research on route planning, APIs and GIS
- Data analysis and visualization of routes
- Design, implementation, deployment and testing
- Coordination between technology project partners

SOFTWARE DEVELOPMENT AND RESEARCH IN SUSTAINABLE URBAN MOBILITY
MCube Consulting
June 2024 - current

- Development of a web app and REST API to calculate full costs and the "Mobi-Score" for routes across Germany
- Frontend and backend in Python (Django), PostgreSQL
- Research on routing APIs and GIS libraries
- Design, implementation, deployment and testing

INTERNSHIPS AND WORKING STUDENT

INTERNSHIP

DB Systel GmbH Berlin, Skydeck

September 2020 - December 2020

- Start-up acceleration and incubation
- Agile product management with SCRUM
- Planning, creation, and moderation of online events
- Development of physical and virtual technology showcases.

INTERNSHIP

Siemens Mobility GmbH (LLC) Vienna, Digital Factory

Oktober 2018 - Dezember 2018

- Planning and implementation of digitalization measures
- Conducting related training sessions for plant workers

WORKING STUDENT

TU Munich - Chair of Materials Handling, Material Flow, Logistics

October 2019 - March 2020

- Development of a VR simulation for a forklift in the project "Intuitive Forklift Mast Control with Haptic Feedback"
- VR simulation development using the game engine Unity (C#)
- Integration of a custom hardware controller into the simulation