

# Philipp Stockerl

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## Profile

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Dual-degree student in **Information Systems** and **Business Administration & Economics** with a technical focus on **optimization**, **vehicle routing**, and **algorithmic decision support**. Hands-on experience in modeling and solving industrial optimization problems (e.g., material and network flows) using **Python (Gurobi)**, complemented by solid knowledge of **SAP S/4HANA**. Strong interest in applying quantitative methods, simulation, and automation to real-world logistics and production systems.

## Education

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University of Passau  
Apr 2024 – present

### B.Sc. Information Systems

Focus: Optimization, Process Management, ERP Systems, Data Analytics.

University of Passau  
Oct 2021 – present

### B.Sc. Business Administration & Economics

Focus: Supply Chain & Operations Management, Business Informatics.

## Relevant Projects

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University of Passau  
2025

### Bachelor Thesis (in progress)

*Robust and Adaptive Path Planning for Autonomous Vehicles in Spatio-Temporal Cost Fields.* Development of a Python-based experimental framework for shortest-path planning under uncertainty, including incremental search (D\* Lite) and robust optimization models, integrated into a web-based control interface with automated data generation and sensitivity analysis.

Project demo: [Interactive web application](#)

University of Passau  
2025

### Web Engineering Group Project

Full-stack web application developed in a team setting, including REST-style back-end logic (Java Servlets) and front-end integration, deployed on Apache Tomcat.

University of Passau  
2024/25

### Management Science Practical Course (Grade 1.0 / A)

Hands-on optimization course covering core problems (Knapsack, Shortest Path, TSP). Development and implementation of a Minimum-Cost-Flow formulation for autonomous truck routing, documented in a conference paper.

University of Passau  
2024

### Seminar: Competitive Facility Location (Grade 1.0 / A)

Implementation of an optimization model for a capacitated facility location problem under demand uncertainty.

## Professional Experience

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4process AG  
Oct – Nov 2024

### Intern – Business Process Integration (SAP S/4HANA)

Analyzed and modeled manufacturing and logistics processes; supported ERP customization and data migration activities.

ZF Friedrichshafen AG  
Apr – Sep 2024

### Intern – Procurement Logistics

Analyzed procurement and supply chain processes, created KPI dashboards, and supported strategic sourcing based on Harvard negotiation principles.

<b>msg systems AG</b> <i>Apr 2024</i>	<b>Intern – SAP Fiori/ABAP RAP Development</b> Developed ERP automation functions and integrated analytics in SAP S/4HANA environments.
<b>Ensinger Plastics</b> <i>Sep – Oct 2024 / Sep 2025</i>	<b>Production Experience</b> Assisted in production control and quality assurance within plastic extrusion operations.
<b>Grupor Kunststoffwerke Katzbach</b> <i>Sep 2020 – Aug 2021</i>	<b>Production &amp; Warehouse Assistant</b> Supported production workflows, logistics handling, and quality control in foam manufacturing.
<b>Siemens AG</b> <i>Mar – Jun 2018</i>	<b>Intern – Manufacturing Processes</b> Supported process digitalization and change management initiatives in administrative production processes.

## Certificates & Training

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Career and Competence Center (ZKK), University of Passau – 12 seminars in project management, teamwork, communication, leadership, and **data analytics** (*Python for Data Analysis, R Fundamentals*).

## Skills & Tools

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<b>Optimization &amp; OR</b>	Linear and Integer Programming, Robust Optimization, Shortest-Path Problems, Network Flow, Heuristics, Sensitivity Analysis
<b>Programming &amp; Analytics</b>	Python (NumPy, Pandas, Matplotlib, Gurobi), Git, Algorithm Prototyping, Experimental Evaluation
<b>Analysis &amp; Evaluation</b>	Sensitivity Analysis, Parameter Studies, Experimental Benchmarking
<b>Simulation &amp; Planning</b>	Path Planning, Autonomous Vehicle Routing, Spatio-Temporal Cost Modeling
<b>ERP &amp; Process Engineering</b>	SAP S/4HANA, ABAP RAP, SAP Fiori, BPMN Process Modeling
<b>Professional Skills</b>	Analytical Thinking, Technical Communication, Structured Problem Solving, Team Collaboration

## Languages

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German (Native) | English (C2 – fluent, business proficient) | Spanish (B1 – intermediate)

## References

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Prof. Dr. Alena Otto, Chair of Supply Chain & Operations Management, University of Passau  
 Scott Foley, Language Centre, University of Passau  
 Francisco Barreto, Language Centre, University of Passau

*Updated: January 2026*