Florian Pfleiderer

As a computer science graduate student, I am enthusiastic about tackling complex challenges, for which I enjoy developing innovative solutions using my numerical affinity and analytical, goal-oriented thinking.

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Education

09/2024 – 09/2025 **MSc Computer Science**, *University of St Andrews*, St Andrews, UK
Special Coursework: Computer Security, Machine Learning, Data-Intensive Systems

09/2017 – 07/2024 **BSc Electrical Engineering**, *Vienna University of Technology*, Vienna, Austria
Bachelor Thesis: Model Optimisation and Comparison for Improved Change Detection
Special Coursework: Applied Programming in C++, Robotics and Image Processing

09/2008 – 06/2016 **Matura (High School Diploma)**, *Gymnasium der Dominikanerinnen*, Vienna, Austria
Graduated: June 17, 2016, with distinction

09/2013 – 06/2014 **Exchange Year**, *Blundell's School*, Tiverton, UK
AS-Levels: Mathematics, Physics, Business Studies, History

Professional Experience

03/2022 – 10/2023 **TU Wien Racing**, *Vehicle Dynamics & Data Analysis*, Vienna, Austria
- Led the development of ECU software with 5 contributors and implemented vehicle control systems to increase vehicle performance by 20%.
- Conducted more than 100 hours of vehicle dynamics simulations with ChassisSim to optimise vehicle setups and gained a 5% increase in cornering performance.
- Collaborated with a multidisciplinary team to design and implement data acquisition systems and graphical visualisation.

10/2016 – 06/2017 **Therapeutische Gemeinschaften**, *Civil Service*, Vienna, Austria
- Provided daily support for 8 children in a therapeutic community.
- Developed strong interpersonal skills through weekly problem solving meetings with staff.
- Facilitated implementation of accounting software to help transition to a digital environment.

Technical Projects

ROS | Python **Autonomous Robot Hockey System**, *3 contributors.*
Implemented motion control, obstacle avoidance, detection of field components (pucks, poles, goals), detection of field dimensions, localisation and manipulation of pucks.

CMake | C++ **Digital Modular Synthesizer**, *7 contributors.*
Utilises the ImNodes and ImGui libraries for visualisation and the Synthesis Toolkit (STK) for creating and processing sounds.

ML | Python **Change Detection System**, *Pipeline for autonomous robotic systems.*
Enabling change detection on RGB image frames for indoor robotic applications. Using the SuperGlu neural network to achieve class-agnostic zero-shot performance.

Extracurricular Experience

09/2019 – 10/2021 **TU Robots Football**, *Austrian College Football League*, Vienna
Played as cornerback and organised community events.

09/2017 – 09/2019 **Akademischer Skiclub Wien (ASC)**, Vienna
Raced in the Disciplines Slalom and Giant Slalom.

Hobbies and Interests

Sports | Factual Tennis, Skiing, Formula 1 | Coding, Emerging Technologies, European History
Personal Personal Development, Health & Fitness
Languages German - C2 | English - C2 | French - B1