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Deutsches Zentrum für Luft- und Raumfahrt (DLR)  
Institut für Robotik und Mechatronik  
Perzeption und Kognition  
Münchener Straße 20  
82234 Oberpfaffenhofen-Weßling, Germany

Mandatory Internship and Master's Thesis: LiDAR-Based Satellite Pose  
Estimation for Orbital Robotic Operation

Dear PEK Team,

My name is Maximilian, and I would be thrilled to support the DLR through an internship and a master's thesis in the Perception and Cognition department.

My academic background has set me up with the right tools for working with robotic intelligence topics effectively. I am currently pursuing a Master's degree in Control Systems Engineering at the University of Padua, Italy, where I will focus on intelligent robotics in the coming semester. My transition from Aerospace Engineering to Control Systems Engineering has given me a solid interdisciplinary perspective and taught me how to quickly identify and bridge knowledge gaps when tackling new challenges.

I gained experience with Python for machine learning through master's courses and worked with C++ in computer vision projects. In an Estimation and Filtering course, I also learned core state estimation techniques relevant to pose estimation tasks.

I aim to pursue a PhD in robotics and control and contribute meaningfully to research in this field. The DLR's commitment to cutting-edge technology reflects the kind of impact I hope to make. I'm excited to bring my skills and motivation to your PEK team and am available to start in March 2026, when my final semester begins.

Sincerely,



Maximilian Pries

encl: Curriculum Vitae, Transcript of Records (Note: The grade for *Computer Vision* is not yet recorded, due to an ongoing project)