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Flight Mechanics and Controls Lab

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Letter of Reference

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To whom it may concern,

Salma Abass was part of the Flight Mechanics and Controls Lab (iFR) at the University of Stuttgart for six months when she worked on aircraft control algorithms for automatic landings in the scope of her BSc thesis.

Salma conducted extensive research on flight mechanics, aircraft modeling, and validation, and applied non-linear control laws to address complex aircraft automation challenges. She used MATLAB/Simulink for software-in-the-loop simulations, highlighting her ability to implement algorithms with ease. The primary focus of the research was developing control algorithms for reliable automatic landings of small model aircraft. Her tasks included literature review, flight mechanics comprehension, model development, and real-time simulation.

Overall, Salma's dedication to enhancing aircraft control algorithms was evident throughout her six-month thesis. Her contributions contributed to the iFR's mission of pushing the boundaries of aerospace engineering. Her ability to quickly acquire new skillsets and process new information was noteworthy and a key reason for her ability to quickly become a valuable addition to the Institute research. Her demeanor and work ethics were impressive and quickly made her become a worthy part of the team. She consistently performed her tasks with great independence and discipline. This is especially remarkable considering that the aerospace engineering field was relatively new to her in the beginning. Salma consistently proved her ability to comprehend abstract engineering concepts and find feasible solutions to cope with sophisticated challenges.

The achievements of her internship were documented in a well-written thesis, illustrating her ability to report and present her results in a coherent and conclusive manner. The presentation of her work was very professional and compelling.

If you have any questions or concerns, please do not hesitate to contact me.

With Best Regards,

M.Sc. Andreas Steinleitner
Research Associate, Flight Mechanics and Controls Lab

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