



FREDERICK LÜTHCKE

Aerospace Engineer and Head of Project

Goal Oriented - Pragmatic - Flexible

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Objective	To obtain a full-time position as head of project	
Work Experience	<i>Diehl Defence GmbH & Co. KG</i> Head of Project GBAD Export ✓ Available upon request ✓ Available upon request ✓ Available upon request ✓ Available upon request ✓ Available upon request	Überlingen, GER April 2021 – present
	<i>Industrieanlagen Betriebsgesellschaft (IABG) mbH</i> Analyst – Naval Systems ✓ Available upon request ✓ Available upon request ✓ Available upon request ✓ Available upon request	Ottobrunn, GER Aug. 2018 – Mar. 2021
	<i>Eagle Flight Research Center – ERAU</i> Engineering Research Intern ✓ Creating and implementing telemetry data feed for MarkII UAV ✓ Designing and running experimental procedure for data validation, including wind tunnel use ✓ Writing documentation for completed work and tasks ranging from installation to wind tunnel use <i>Contact: Vinod Gehlot – vgehlot@utsi.edu</i>	Daytona Beach, USA Apr. 2016 – Mar. 2017
Education	<i>Embry-Riddle Aeronautical University</i> Master of Science, Aerospace Engineering Area of Concentration: Dynamics & Control	Daytona Beach, USA May 2018 GPA: 4.00/4.00
	<i>Embry-Riddle Aeronautical University</i> Bachelor of Science, Aerospace Engineering Area of Concentration: Aeronautics	Daytona Beach, USA Dec. 2016 GPA: 3.59/4.00
Project Experience	<i>Orbital Mechanics – Class AE595Y</i> High Fidelity Orbit Propagator ✓ Develop 2-body gravitational equation to include perturbation from J terms and aerodynamics ✓ Propagate orbits for 1000 satellites simultaneously in MATLAB ✓ Optimize performance by utilizing parallel computing including GPU computing <i>Contact: Prof. Troy Henderson – Troy.Herderson1@erau.edu</i>	Jan. 2018 – May 2018
	<i>Guidance, Navigation and Control – Class AE623</i> IMU Based Attitude Estimation ✓ Setup data collection using Quanser robotic arm, iPhone IMU and MATLAB/Simulink ✓ Create 4 different Kalman Filter approaches and compare their performance ✓ Evaluate and present performance based on error and mean error signals <i>Contact: Prof. Hever Moncayo – Hever.Moncayo@erau.edu</i>	Aug. 2017 – Dec. 2017
Skills	<i>Engineering Software:</i> MATLAB, Simulink, CATIA, DATCOM, XFOIL <i>Office:</i> Word (Intermediate), Excel & VBA (Intermediate), PowerPoint (Intermediate) <i>Languages:</i> German (native), English (native), Spanish (basic)	