

Carlo Wiese

Aerospace Engineer with a Master in Computer Science



Engineer with 3+ years of computer vision experience passionate about drones and their applications. Skilled at vision-based localization and mapping, simulation of virtual environments, data analysis, and machine learning implementation. Currently working on visual-inertial localization systems for drones using machine learning.

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WORK EXPERIENCE

Fraunhofer FKIE

Researcher

Bonn, Germany
April 2019 – September 2021

- Supported the development of engineering projects in the field of computer vision for military drone-based applications.
- Designed visual localization systems using Python and built virtual environments using ROS to simulate drones using such systems.

CTIC UNI

Researcher

Lima, Peru
August 2017 – July 2018

- Supported the manufacturing of a hydrofoil craft for an international boat racing competition held in France.
- Designed a hydrofoil using flow simulation and AutoCAD modeling, ultimately proposing a carbon fiber body with a fiberglass hydrofoil.

Garrison Flight Research Center

Research Intern

Lawrence, United States of America
June 2016 – August 2016

- Supported the development of collision avoidance software in the field of risk mitigation for military drone-based applications.
- Evaluated popular collision avoidance systems for UAVs in custom virtual environments using MATLAB.

EDUCATION

Hochschule Bonn-Rhein-Sieg

Master of Science in Autonomous Systems

Sankt Augustin, Germany
October 2018 – September 2021

Thesis on learning-based visual-inertial localization systems for autonomous drones

Member of the robotics team that placed 1st in the International RoboCup 2019 Competition

Relevant Coursework: Computer Vision, Machine Learning

University of Kansas

Bachelor of Science in Aerospace Engineering

Lawrence, United States of America
August 2013 – December 2016

Graduated with Honors | Full-Tuition Scholarship

Elected as “Sophomore of the year” by the Aerospace Engineering department

Relevant Coursework: Aerodynamics, Flight Control

TECHNICAL SKILLS

Proficient in
Familiar with

Linux, Python, C++, MATLAB, ROS, Tensorflow, Git, Jupyter Notebook
Windows, R, SQL, Java, Tableau, AutoCAD, Siemens NX

LANGUAGES

English - Fluent

Spanish - Native

German - Basic