

Dr. Chris Schindlbeck



EXPERIENCE

AUG 2020 – TODAY

IAV GmbH

Software/DevOps Engineer for Robotics

SW Integration Management, DevOps (CI/CD), and ROS/ROS2 Development for a Harvesting Robot

Guidance, Navigation and Control (Localization and Path Planning) for Unmanned Aerial Vehicles (C/C++ on Embedded Systems)

JUN – JUL 2020

EXIN

Training as Scrum Master / Product Owner

EXIN Certification in Scrum (Product Owner, Scrum Master)

MAR – MAY 2020

Freelance

Software Developer for Computer Vision

Freelance Computer Vision (Python, OpenCV) Tasks for Autonomous Driving (Navigation, Object Detection)

NOV 2015 – DEC 2019

Leibniz Universität Hannover

Research Assistant - Robotics & Optics

Software Developer for Image-based Sensor Fusion of Robotic and Optical Systems
Lecturer "Optical Metrology" (english)
Supervisor "Robust Control" (german)
IT-Representative und Serveradministrator

OCT 2013 – MAR 2015

Leibniz Universität Hannover

Research Assistant - Robotics

Software Developer for Robotic Force Control
Tutor for Lectures "Control Theory 1 & 2"

NOV 2012 – SEP 2013

Kastanienbaum GmbH (now Franka Emika)

Software Developer for Robotics

Modeling, Identification and Control of Low-cost Lightweight Robots With Flexible and Coupled Joints

OCT 2011 – SEP 2012

German Aerospace Center (DLR)

Diploma Student

Optimal Control of Robots with Intrinsically Elastic Joints

FEB – MAY 2011

Technische Universität München

Student Assistant

C++ Implementation of Optimal Control Methods for human Arm-Movements

AUG – OCT 2010

German Aerospace Center (DLR)

Intern

Formalization of Human-Robot-Interaction: Theory and Implementation

SKILLS

Domain Knowledge

Robotics, Control, Motion Planning, Sensor Fusion, Signal- & Image Processing, Machine Learning

Software Development

DevOps, Agile Development (Scrum, Kanban), Free and Open Source Software, Object-oriented Design

Tooling

git, Docker, bash, Linux, Robot Operating System (ROS, ROS2), Ansible, GitLab/GitHub

Programming Languages

Python, C/C++, Matlab/Simulink/Stateflow, Rust

CERTIFICATIONS

2022 **Certified Professional for Software Architect (CPSA-F)**

iSAQB

2020 **Agile Scrum Master / Product Owner**

EXIN

2020 **Self-Driving Cars Specialization**

Coursera

2014 **Machine Learning**

Coursera

EDUCATION

2019 **PhD Robotics**

(DR.-ING.) GRADE: SUMMA CUM LAUDE (EXCELLENT)

Leibniz Universität Hannover

2012 **Diploma Mathematics**

(DIPL.-TECH. MATH. UNIV.) GRADE: VERY GOOD (1.4)

Technische Universität München

LANGUAGES

German (C3), English (C2), Spanish (B1)