

# Dr. Chris Schindlbeck



## EXPERIENCE

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AUG 2020 – TODAY

IAV GmbH

### Software Development 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

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### 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, Solidity, Fortran77, LabVIEW

## CERTIFICATIONS

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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

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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

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