

# Dr. Chris Schindlbeck

## *Curriculum Vitae*

### EXPERIENCE

---

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

---

#### **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

---

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)