

# Dr. Chris Schindlbeck

## Curriculum Vitae



### EXPERIENCE

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AUG 2020 – TODAY

IAV GmbH

#### DevOps/Embedded Software Engineer

DevOps (CI/CD), Cloud (AWS) Development and SW Test-Management for Windturbines

MLOps: Deploy Machine Learning (Reinforcement Learning) to Kubeflow via Kubernetes

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

Guidance, Navigation and Control 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)

OCT 2013 – DEC 2019

Leibniz Universität Hannover

#### Research Assistant - Robotics & Optics

Software Development for Image-based Sensor Fusion and Robotic Force Control

Lecturer "Optical Metrology" (english)

Supervisor "Robust Control" and "Control Theory 1 & 2" (german)

IT-Representative und Serveradministrator

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

### SKILLS

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#### DevOps & Cloud

git, Docker, Linux, Ansible, Terraform, GitLab, GitLab CI, GitHub, GitHub Actions, Azure DevOps, AWS

#### Programming Languages

Python, bash, Powershell, Lua, C/C++, Matlab / Simulink / Stateflow, Rust

#### Software Development

Linux, Robot Operating System (ROS, ROS2), Agile Development (Scrum, Kanban), Free and Open Source Software, Object-oriented Design

#### Domain Knowledge

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

### 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*

2013 **Interactive Programming in Python**

*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