

CURRICULUM VITAE

PERSONAL DETAILS

Name YADAV, AKASH
Address Burgwall 15, Etage 10, 01,
38444, Wolfsburg, Deutschland
Telephone (49) 176 / 35262864
E-Mail ayadav10491@gmail.com
Nationality Indian
Date of Birth 10.04.1991
Profile [Github-Portfolio](#) [LinkedIn](#) [Xing](#)



WORK EXPERIENCE

▸ 02.2021 - present

- Employer
- Department
- Major Tasks

Junior Consultant (Software Development)

Capgemini Engineering, Wolfsburg (Volkswagen Extern)
Industrial Engineering/ PLM and CAx Methodik
Design Automation through Windows Application (WPF with C#/.Net Framework), C++, Microsoft Azure DevOps, Software Architecture, Design Patterns, API Development

▸ 12.2020 - 01.2021 & 04.2019 - 06.2020

- Employer
- Department
- Major Tasks

Graduate Research Assistant (AI & Software Development)

Technische Universität Kaiserslautern
Institute for Wireless Communication and Navigation (WiCoN)
Drone Development, Sensors & Communication Integration,
Image Processing, Object Detection, SLAM [Python, C++, Git]

▸ 04.2019 - 10.2019

- Institute
- Major Tasks

Internship (Driver Assistance Function Development)

Robotics Research Lab, Technische Universität Kaiserslautern
Edge Compaction of the Road Roller, Trajectory Tracking,
V2V Communications [C++, CMake, Unreal Engine, Finroc]

▸ 11.2018 - 03.2019

- Employer
- Department
- Major Tasks

Internship (Radar Software Development)

Robert Bosch GmbH, Leonberg
Engineering Software & System Assisted 2
ADAS Test Automation, Radar & Camera Synchronization,
Image & Signal Processing [Matlab, Python, Git]

EDUCATION

▸ 09.2020 - 11.2020

- Competencies

State Estimation and Localization for Self-Driving Car (University of Toronto - Online)

Localization (GPS and IMU), State Estimation, Kalman Filters

▸ 10.2016 - 09.2020

- University

Master of Science in Commercial Vehicle Technology

Technische Universität Kaiserslautern

- Competencies
- Master Thesis

▷ 10.2014 - 08.2016

- Educational Institute
- Competencies
- Master Thesis

▷ 07.2009 - 06.2013

- University
- Bachelor Project

PROJECT LIST

SKILLS

PC Knowledge
Programming
Robotic Frameworks
Version Control
ML Frameworks
Cloud Infrastructure
Embedded Devices
Other Softwares

LANGUAGES

English
German
Hindi

Automotive Software Engineering, Autonomous Robots,
Computer Vision, Product Development, Electromobility
Unmanned Aerial Vehicle Based Environment Analysis

- Image Processing, Semantic Segmentation, Deep Learning [Python, C++, Tensorflow, Tensorflow Lite, TensorRT]
- Application Development

Master of Engineering in CAD/CAM/CAE

Shri G.S Institute of Technology and Science
Product Development, CAx and Automation, Mechatronics
Robotic Arm Automation using Machine Learning
• Kinematic Analysis , Algorithm Development [Matlab]

Bachelor of Engineering: Mechanical Engineering

Rajiv Gandhi Proudhyogiki Vishwavidyalaya
Steering Control of Omnidirectional Robot

Multi-Robot Formation Control using Graph Theory (2018)

- Trajectory Tracking
- V2V Communication System Analysis, Implementation with Graph Theory [Matlab, Simulink]

3D Computer Vision (2018)

- Literature Research for "Variational Sceneflow Estimation"

Electromobility Seminar (2017)

- Design of Energy Management System for a Mild Parallel Hybrid Electric Vehicle [Simulink]
- Responsibility - Structure of the Control Unit in Matlab

Development of Steering Control System for Off-Road Vehicle (2013)

Windows, Linux
C# / .NET, Python, C++, Matlab
Finroc, ROS
Git, Mercurial, Azure DevOps
Tensorflow, Tensorflow Lite, TensorRT, Keras, PyCharm
Azure
Raspberry Pi, Nvidia Jetson
Simulink, Unreal Engine

Mode of Education (Second Language)
B1
Mother Tongue