Curriculum Vitae

Personal Details

Name	YADAV, AKASH
Address	Hauptstraße 178, 33647, Bielefeld, Deutschland
Telephone	(49) 176 / 35262864
E-Mail	ayadav10491@gmail.com
Nationality	Indian
Date of Birth	10.04.1991
Profile	**Github-Portfolio** **LinkedIn** **Xing**

▷ Feb 2021 - present

Software Developer

- ○ Employer: Capgemini Engineering, Wolfsburg (Volkswagen Extern)
- ○ Department: Industrial Engineering/ PLM and CAx Methodik
- ○ Major Tasks: Automotive Design Automation through Windows Application (WPF with C#/.Net Framework & Core), Microsoft Azure DevOps, Software Architecture, Design Patterns, Requirement Gathering, SCRUM, Agile Software Development, API Development

▷ Dec 2020 - Jan 2021 & 04.2019 - 06.2020

Graduate Research Assistant (AI & Software Development)

- ○ Employer: Technische Universität Kaiserslautern
- ○ Department: Institute for Wireless Communication and Navigation (WiCoN)
- ○ Major Tasks: Drone Development, Sensors & Communication Integration, Image Processing, Object Detection [Python, C++, Git]

▷ April 2019 - Oct 2019

Internship (Driver Assistance Function Development)

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

▷ Nov 2018 - March 2019

Internship (Radar Software Development)

- ○ Employer: Robert Bosch GmbH, Leonberg
- ○ Department: Engineering Software & System Assisted 2
- ○ Major Tasks: ADAS Test Automation, Radar & Camera Synchronization, Image & Signal Processing [Matlab, Python, Git]

Education

▷ Oct 2016 - Sep 2020

Master of Science in Commercial Vehicle Technology

- ○ University: Technische Universität Kaiserslautern
- ○ Competencies: Automotive Software Engineering, Autonomous Robots, Computer Vision, Product Development, Electromobility

◦ Master Thesis

Unmanned Aerial Vehicle Based Environment Analysis

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

▷ Oct 2014 - Aug 2016

Master of Engineering in CAD/CAM/CAE

◦ Educational Institute

Shri G.S Institute of Technology and Science

◦ Competencies

Product Development, CAx and Automation, Mechatronics

◦ Master Thesis

Robotic Arm Automation using Machine Learning

▷ July 2009 - June 2013

Bachelor of Engineering: Mechanical Engineering

◦ University

Rajiv Gandhi Proudyogiki Vishwavidyalaya

◦ Bachelor Project

Steering Control of Omni-directional Robot

PROJECT LIST

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"

Electromobilty 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)

SKILLS

OS Knowledge	Windows, Linux
Programming	C# / .NET, Python, C++, Matlab
Robotic Framework	Finroc
Version Control	Git, Mercurial, Azure DevOps
ML Frameworks	Tensorflow, Tensorflow Lite, TensorRT, Keras, PyCharm
Embedded Devices	Raspberry Pi, Nvidia Jetson
Other Software	Simulink, Unreal Engine

LANGUAGES

English	Mode of Education (Second Language)
German	B1
Hindi	Mother Tongue