

CURRICULUM VITAE

PERSONAL DETAILS

Name
Address

Telephone
E-Mail
Nationality
Date of Birth
Profile

YADAV, AKASH
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Indian
10.04.1991
[Github-Portfolio](#) [LinkedIn](#) [Xing](#)



WORK EXPERIENCE

▷ February 2021 - present

- Employer
- Department
- Major Tasks

▷ April 2019 - January 2021

- Employer
- Department
- Project
 - Phase 1
 - Phase 2
 - Phase 3

▷ Nov 2018 - March 2019

- Employer
- Department
- Major Tasks

▷ April 2018 - Oct 2018

- Institute
- Major Tasks

Software Developer

[Capgemini Engineering, Wolfsburg \(Volkswagen Extern\)](#)

Digital Engineering - Digital Continuity & Manufacturing

- Product Development Automation through Windows & Web Apps
- Requirement Collection in Collaboration with Product Owner
- Software Architecture Creation, Selection of Design Patterns
- Agile software development through SCRUM
- API development
- Database Automation [Entity Framework, JSON, XML, CSV]
- Unit Testing
- Tools: C#/.NET Core, Visual Studio, Git, Azure DevOps

Research Assistant (AI & System Development)

[Technische Universität Kaiserslautern](#)

Institute for Wireless Communication and Navigation (WiCoN)

Drone Development for Landscape Analysis

Requirement Analysis, System Development, Creating BOM, System and Sensor Integration

Masters Thesis: Semantic Segmentation of Aerial Scene

- Creation of Dataset and Image Processing
- Training using **Tensorflow** and Compression of Model using **TFLite & TensorRT**
- Integration with **Jetson Nano & Intel RealSense** Camera

Implementing **Weed Object Detection** using **Tensorflow**

Internship (Radar Software Development)

[Robert Bosch GmbH, Leonberg](#)

Engineering Software & System Assisted 2

- ADAS Test Automation to Evaluate System Performance
- Radar & Camera Synchronization
- Image & Signal Processing
- Participation in Data Collection on Test Tracks
- Tools: Matlab, Python, CANape(Vector), Git, DOORS

Internship (Driver Assistance Function Development)

[Robotics Research Lab, Technische Universität Kaiserslautern](#)

Edge Compaction of the Road Roller

- Study of Behaviour-based Control Strategy and Fusion
- Study of Autonomous Vehicle Architectures & Remote Interfaces
- Implementation of Trajectory Control Strategies
- Simulation of the Road Roller on Unreal Engine

EDUCATION

▷ Oct 2016 - Sept 2020

- University
- Competencies
- Grade
- Master Thesis

▷ Oct 2014 - Aug 2016

- Institute
- Competencies
- Master Thesis
- Grade

▷ July 2009 - June 2013

- University
- Bachelor Project
- Grade

CERTIFICATIONS

Microsoft

University of Toronto (Coursera)

deeplearning.ai (Coursera)

NVIDIA Deep Learning Institute

Google Cloud (Coursera)

Google Cloud (Coursera)

Google Cloud (Coursera)

HCL

Master of Science in Commercial Vehicle Technology

Technische Universität Kaiserslautern

Automotive Software Engineering, Autonomous Robots, Computer Vision, Product Development, Electromobility 2.1

Semantic Segmentation of Aerial Scene (Grade: 1.0)

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

8.45/10 [German Equivalent 1.66]

Bachelor of Engineering: Mechanical Engineering

Rajiv Gandhi Proudlyogiki Vishwavidyalaya

Steering Control of Omni-directional Robot

75.93/100 [German Equivalent 2.0]

PROJECT LIST

Azure Fundamentals

State Estimation & Localization for Self-Driving Cars

Convolutional Neural Networks

Getting Started with AI on Jetson Nano

Intro to Tensorflow

Launching into Machine Learning

How Google does Machine Learning

OOPs using C++

Multi-Robot Formation Control using Graph Theory (2018)

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

3D Computer Vision (2018)

- Literature Research for "Variational SceneFlow Estimation"

SKILLS

Operating System

Programming

Database

Robotic Framework

Version Control

ML Frameworks

Embedded Devices

Other Software

Windows, Linux

C# / .NET, Python, C++, Matlab

Entity Framework, XML, JSON, CSV

Finroc

Git, Mercurial, Azure DevOps

Tensorflow, Tensorflow Lite, TensorRT, Keras

Raspberry Pi, Nvidia Jetson

Simulink, Unreal Engine

LANGUAGES

English

German

Hindi

Fluent

Intermediate (B1)

Mother Tongue