



# Ankith Manjunath

12 Aug 1991  
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 Indian

## Network Links

My LinkedIn link  
 My Xing link

## Languages

English ● ● ● ● ●  
 German ● ● ● ● ●  
 Hindi ● ● ● ● ●

## Core Skills

C++ ● ● ● ● ●  
Design Patterns ● ● ● ● ●  
GoogleTest ● ● ● ● ●  
Test Driven Development ● ● ● ● ●  
ROS ● ● ● ● ●  
Git/ Gerrit ● ● ● ● ●  
Requirement Engineering ● ● ● ● ●  
Black Box Testing ● ● ● ● ●

## Objective

A passionate software engineer with 3 years of work experience delivering high quality, maintainable software using the state of the art tools & processes in the area of advanced driver assistance systems and autonomous driving (ADAS/AD). I am looking for opportunities in the area of autonomous driving to expand and improve my skills and benefit the organization.

## Work Experience

- 01/2019 - Present **Aptiv Services Deutschland GmbH** Wuppertal, Germany  
Software Engineer Algorithms for L3 Autonomous Driving.  
  - Software product development for situation assessment algorithms using agile development methodologies.
  - Test-driven development of software using googletest and autosar modern C++.
  - Maintain quality using static analysis tools.
  - Black box testing using Carmaker simulation tool.
  - Prototype testing of applications on a vehicle using ROS framework.
  - Continuous process optimizations to shorten software delivery times.
  - Vehicle testing and validation of applications.
- 11/2017 - 12/2018 **AVL Softwares and Functions GmbH** Regensburg, Germany  
Entwicklungingenieur  
  - Algorithm development for prototype applications.
  - Radar-based tracking algorithms using Matlab model-based development tools.
  - Vehicle testing and validation of applications.
- 08/2016 - 08/2017 **AVL Softwares and Functions GmbH** Regensburg, Germany  
Master Thesis & Praktikum  
  - Research on Radar based object detection and tracking for autonomous driving.
  - Validation using Prescan simulation environment.
- 08/2015 - 07/2016 **FAU Erlangen-Nürnberg Universität** Erlangen, Germany  
Werkstudent  
  - Marker detection for robot localization using webcam(OpenCV).

## Education

- 10/2014 - 08/2017 **University of Erlangen-Nürnberg** Erlangen, Germany  
Master of Science (M.Sc) in Communications and Multimedia Engineering.
- 08/2009 - 05/2013 **BNM Institute of Technology** Bangalore, India  
Bachelor of Engineering (B.E) In Electronics & Communication

## Trainings

- 08/2020 - 11/2020 **Accelerated Computer Science Fundamentals** Coursera  
Online course focusing on data structures using modern C++
- 01/2018 - 07/2018 **Self Driving Car Engineer Nanodegree** Udacity  
Online course focusing on perception, fusion and path planning aspects of self driving car

## Publications

- 2018 **Radar Based Object Detection and Tracking for Autonomous Driving**  
*International Conference on Microwaves for Intelligent Mobility*  
IEEE

## Skills & Competancies

Software Development	Agile, ASpice Compliance, Enterprise Architect, Polarion, JIRA, Confluence
Programming Languages	C++-11/14, Matlab, Python
CVS	Git, Gerrit, Github
Static Analysis	Coverity
Simulation	CarMaker, PreScan
Frameworks	ROS, GoogleTest

## Extra-Curricular Activities

- Hiking
- Home Automation
- Cooking
- Badminton
- Gaming