

Niyathipriya Pasupuleti

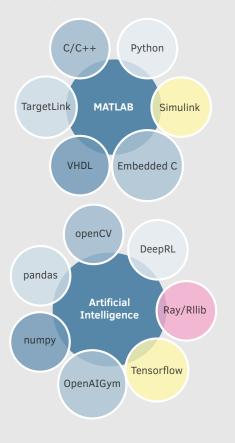
MSc. - Automotive Software Engineering

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Languages

- **English**
- German
- Japanese
- ••••

Skills -



Professional Experience

01/20 - Now Research Assistant

Carissma Research Institute

Audi Electronics Venture GmbH

- Research assistant as Python developer for Crash scenarios
- Research and analysis for developing crash analysis with Python
- Creating crash scenarios to activate air bags and reduce intensity

01/19-08/19 Master Thesis - Artificial Intelligence for Traffic Simulation

- Finding a scalable algorithm with Multi agent Autonomous cars in a Traffic scenario using Deep Reinforcement learning in Python.
- Visualize traffic simulation using different simulation tools.
- Implemented with Open AI Gym, Rllib, Tensorflow, Numpy, SUMO.

06/18-11/18 Internship - Pre-development of Fleet Simulation

Audi Electronics Venture GmbH

- Development of a scalable simulation environment and implement various charging types of a Battery car with swarm functions
- Develop technical requirements of fleet simulation and assist in implementation using Java

10/17-01/18 Lab Practical

Technische Universität Chemnitz

- Create an AUTOSAR application layer with dSPACE SystemDesk.
- Implemented basic CAN message communication with Tiny-CAN.
- Implementation of Application layer and integrating with BSw (tresos)

08/13-07/17 Systems Engineer

Tata Consultancy Services Limited

- Created MATLAB Simulink models (MBD) to generate Auto-Code using dSPACE TargetLink for Transmission system in a car.
- Developed models from MISRA C compliant C code were then MIL,SIL, PIL tested.
- Research of AUTOSAR module layers with legacy code.

12/12-03/13 Bachelor Project - Super Scope

- Portable all in one hand held Electronics devices lab equipment.
- Includes various sensors like MEMS accelerometer, touch screen, CRO, TFT LCD display, UART, rotary encoder, voltage and current sensor
- Advanced TFT Color display for clear waveforms and operated with the latest touch screen interface using touch buttons and menus.

Education

Master Studies

05/17-10/19 Automotive Software Engineering
Autosar: Automotive Software Architechture, CAN, Flexray, Arduino
Programming, Design of Software for embedded Systems, Image
Understanding, Artificial Intelligence conceptual knowledge.

Bachelor Studies

08/09-05/13 Electronics and Communication Engineering

Digital Communication, Wireless Communication, Microprocessor

SRM University

and Microcontroller.

Personal Projects

· Hand-Written Digit Recognizer

Recognize hand-written digits in an image and display digitally with OpenCV in Python

Github Link: https://github.com/BeyondDreamers93/HandWrittenDigitReader

Object Detection wiit HAAR Cascade Classifiers

Detecting the object from an input video with a specific classifier with OpenCV in C++

Github Link: https://github.com/pnp91/ObjectDetection_CascadeClassifier

· LiveSketch with Webcam

Convert the recorded live video from the webcam to a pencil sketch with OpenCV in C++ $\,$

Github Link: https://github.com/pnp91/LiveSketchApp

· Car counter from an input video

Counting cars from an input video with OpenCV in C++ Github Link: https://github.com/BeyondDreamers93/Car-Counter

Portfolio

· https://niyathipriyapasupu.wixsite.com/niyathipriya-pasupu