Personal Information

Date of birth	:	19.01.1995
Place of birth	:	Rajkot, India
Marital status	:	Married

Education

October/2017 - September/2020	Optical Technology (Masters in Science) (Grade – 2.2), Leibniz University Hannover • Optical system design, Computer Vision, Optical 3d measurement, Optical measurements
May/2013 - April/2017	Mechanical Engineering (Bachelors of Engineering) (Grade – 2.0), Gujarat Technological University, Gujarat, India • Machine Design, manufacturing process, CAD/CAM

Experience

May/2021- present (2+ years)	Computer Vision Engineer (Fulltime) Corvitac Gmbh, Hannover • Object detection, multi object tracking, active learning, synthetic data generation, model deployment
November/2013 - April/2021 (6 months)	Machine Vision Application Engineer (Part time) NovoAI AG, Hannover - Stereo 3D camera, anomaly detection, web deployment
February/2020 – September/2020	Evaluation and enhancement of spatial reconstruction accuracy based on Stereo Laryngoscope image data (master thesis) (Grade – 1.3), Institute of Mechatronic System, Leibniz University Hannover. • Stereo camera calibration, stereo 3d reconstruction, multimodal point cloud registration, point cloud processing using C++ with OpenCV and PCL libraries
January/2019- April/2019	Stereo projection system for surgical intervention, (student project) (Grade - 1.7), Institute of Mechatronic System, Leibniz University Hannover. • Camera-projector calibration, structured light 3d reconstruction, localization of multi projectors and camera sensors using C++ with OpenCV and PCL libraries

August/2016- January/2017	Additive manufacturing (Bachelor Internship) Inventive 3D, Rajkot, India. • CAD using Siemens NX, 3D printers, reverse engineering, laser scanning of industrial components

Training/Workshop

May/2020	Fundamentals of Zemax/design studio at Udemy (online course)
June/2014	Training on Siemens Unigraphics NX at Imax Technology

Training/Workshop

- "Stereo Laryngoscopic Impact Site Prediction for Droplet-Based Stimulation of the Laryngeal Adductor Reflex," in *IEEE Access*, vol. 9, pp. 112177-112192, 2021 (co-auther)
- "Self-Localized Multi-Projector Systems for Surgical Interventions: A User Study", Deutsche Gesellschaft fur Computer und Roboterassiserte Chirurgie e.V. (CURAC) 2019 at Reutlingen, Germany, 19.09.- 21.09.2019 (co-auther)

Languages

German	Good Basic Skill
English	Fluent
Hindi	Proficient
Gujarati	Mother Tongue

Technical Skills

Python	Very good
C++	Basic
Tensorflow, tflite	Very good
Pytorch	Very good
ONNX	Very good
TensorRT	Very good
OpenVino	Very good
Git	Very good
DVC	Basic
Scrum	Very good

Experience with

- web frameworks including Tornado, FastAPI, Flask
- User interface design with streamlit, gradio and pyqt
- Embeded systems such as jetson boards, upboard, raspberry pi and arduino
- Edge inference devices such as nvidia jetson devices, coral edgetpu, myriad-x, luxonis devices

Hannover,

Hardik Dava