Dr. Asif Rajput

rajputasif.github.io| engineer.asifali@gmail.com

EDUCATION

TU-BERLIN

PhD in Computer Vision

2014 - 2018 | Berlin, DE Computer Vision 3D Reconstruction SLAM Robotics

NUST

MSc in Computer Engg.

2009 - 2011 | Islamabad, PK CGPA: 3.25 / 4.0 Digital Image Processing Computer Vision

QUEST

BE IN COMPUTER SYSTEMS ENGG.

2004 - 2009 | Nawabshah, PK Percentage: 82.78% Robotics Embedded Systems IoT

LINKS

Github://rajputasif LinkedIn://rajputasif

SKILLS

PROGRAMMING

Over 5000 lines:
JavaScript • Matlab • ATEX
Over 10000 lines:
C++ • Python

TECHNOLOGIES

OpenCV • SLAM • AI / ML 3D Reconstruction • GIT • ROS PyTorch • Tensorflow • Docker

EXPERIENCE

KODIFLY LIMITED | SENIOR AI ENGINEER & DEVELOPMENT MANAGER

March 2023 - Ongoing | (Remote)

- Actively developing a hybrid image and LiDAR fusion based system to accurately detect vehicles in extreme conditions using deep learning techniques.
- Managing a diverse team consisting of back-end, front-end and Al engineers.

CENTER OF EXCELLENCE FOR ROBOTICS, AI AND BLOCKCHAIN | Senior Researcher (Robotics)

June 2020 - March 2023 | Sukkur, PK

- Developed and **patented** (pending) a device to automate the digitization process of handwritten documents, forms using CV and Deep learning.
- Led CRAIB's robotics cluster of enthusiast python engineers to develop a deep learning based surveillance system for vehicle detection, tracking, speed analytics, management and so more.and Scala using Play

NUST | Assistant Professor

Feb 2019 - May 2020 | Islamabad, PK

• Supervision and mentor ship of students/researchers to expand the frontiers of CV/ML research.

GERMAN AEROSPACE CENTER (DLR) BERLIN | PHD RESEARCHER

Oct 2014 - Sep 2018 | Berlin, DE

- Design and Implementation of a generalized novel 3D reconstruction framework capable of handling various sensor devices (such as RGBD cameras, LiDAR and StereoVision).
- Developed and **patented** a decentralized system with Tailor made-MQTT protocol to facilitate remote visualization of 3D reconstruction.

SUKKUR IBA UNIVERSITY | Lecturer (Computer Science)

Feb 2012 - Jun 2014 | Sukkur, PK

RESEARCH AND DEVELOPMENT*

PATENTS AND PROJECTS

- Patent 1: Color Selector Module for LS image compression
- Patent 2: System and method for extracting handwritten text using ML (pending)
- Online 3D viewer [live-demo]
- SmoothFusion[video]

PUBLICATIONS | FULL LIST: ORCID:/0000-0002-0157-129X

- SmoothFusion
- Multi-Sensor Depth Fusion
- Offline HTR
- 3D PCL Segmentor
- Color Selector for lossless compression

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