

# Zeeshan Khan Suri

COMPUTER VISION · MACHINE LEARNING

*Far and away the best prize that life has to offer is the chance to work hard at work worth doing.” – Theodore Roosevelt*

## Education




### Saarland University

Saarbrücken, Germany

MASTER OF SCIENCE IN VISUAL COMPUTING

Oct. 2016 - July. 2019

- CGPA: 1.5 (German Scale)
-  Thesis: A Low-dimensional Deformation Model for Non-rigid Shape Matching. Advisor: Prof. Dr. Florian Bernard.



### SRM University

Chennai, India

BACHELOR OF TECHNOLOGY IN ELECTRONICS AND COMMUNICATION ENGINEERING

July 2011 - May 2015

- CGPA: 1.99 (German scale) Percentage: 83.5%
- Thesis: Stabilization of a UAV quadcopter. Supervisor: Dr. P. Eswaran

## Research Experience

### htw saar University of Applied Sciences

Saarbrücken, Germany

RESEARCH ASSOCIATE: REAL-TIME UNSUPERVISED MONOCULAR DEPTH ESTIMATION ON EMBEDDED DEVICES

Feb. 2020 - Mar. 2021

- Efficient neural network inference on embedded devices.



### Fraunhofer Institute for Nondestructive Testing

Saarbrücken, Germany

STUDENT ASSISTANT (HiWi): LEARNING BASED FEATURE EXTRACTION FOR MATERIAL CHARACTERIZATION

Jan. 2019 - Oct. 2019



### ZeMA – Center for Mechatronics and Automation

Saarbrücken, Germany

STUDENT ASSISTANT (HiWi): LASER POINT CLOUD ACQUISITION AND PROCESSING FOR ROBOTIC ARM CONTROL

Dec. 2017 - Mar. 2018



### Max Planck Institute for Informatics

Saarbrücken, Germany

STUDENT ASSISTANT (HiWi): INTRINSIC DECOMPOSITION OF LIGHT-FIELD IMAGES

Mar. 2017 - July 2017

## Industrial Experience

### SensoVision Systems

Bangalore, India

COMPUTER VISION ENGINEER

Aug. 2015 - Aug. 2016

- Worked on various Image Processing applications such as Image Restoration, Face recognition, Multi-Object tracking and counting.
- Was involved in *Vision-based Drone Autonomy* project, which won Qualcomm's Maker Month Dragonboard Contest, 2016.
- Reference: Vikram Jain

## Teaching

### Teaching Assistant (Tutor)

Saarbrücken, Germany

IMAGE PROCESSING AND COMPUTER VISION, 2018

Summer Semester 2018

- Presentation of classroom-work solutions, correction of homework and discussion during office hours; for 20 students.

## Awards

2019	<b>YRF Student Travel Grant</b> , Admission to GCPR 2019 conference and a travel scholarship of upto 500€	Dortmund, Germany
2018	<b>Saarland Scholarship for International Students</b> , Scholarship of 300€/m during Summer Semester 2018	Saarbrücken, Germany
2011	<b>SRM Merit Scholarship</b> , 50% tuition fee waiver during the first year of my Bachelor studies	Chennai, India

## Publications

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Florian Bernard, Zeeshan Khan Suri, and Christian Theobalt. Mina: Convex mixed-integer programming for non-rigid shape alignment. In *The IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR)*, June 2020. <https://doi.org/10.1109/CVPR42600.2020.01384>

P. Eswaran, Mahendar Guda, Mukunda Priya, and Zeeshan Khan. Stabilization of UAV Quadcopter. In L. Padma Suresh and Bijaya Ketan Panigrahi, editors, *Proceedings of the International Conference on Soft Computing Systems*, pages 827–837, New Delhi, 2016. Springer India. [https://doi.org/10.1007/978-81-322-2671-0\\_78](https://doi.org/10.1007/978-81-322-2671-0_78)

## Skills

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**Languages** MATLAB, Python, R, C++, C, L<sup>A</sup>T<sub>E</sub>X  
**Libraries** Pytorch, Keras, scikit-learn, OpenCV, pandas, NumPy, ROS, Android  
**Hardware** NVIDIA Jetson, Arduino, Raspberry Pi, AMiRo

## Online Courses

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Neural Networks and Deep Learning, *Data Science courses*, *Control of Mobile Robots with Distinction*, *Image and Video Processing*, *Introduction to OptoBiotics*, and many more.

## Extracurricular Activities

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### Aakash Research Labs, SRM University

Chennai, India

STUDENT TECHNICAL HEAD

2013 - 2015

- Core student member responsible to initiate and manage innovative projects such as Surprise test, SRM E-Brochure
- Reference: Asst. Prof. S. Vasanthadev Suryakala

### The Electronics Club, SRM University

Chennai, India

HEAD OF THE PROJECTS TEAM

2013 - 2015

- Contributed towards skill development by teaching practical electronics skills such as *Arduino*, *Raspberry pi* to other students in club.
- Implemented many mini-projects with other students of the club for the development of the university, such as *Lab automation*, etc
- Reference: Manikandan A V M

## Organisational responsibilities

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2018	<b>Student Volunteer</b> , 3DV 2018 - International Conference on 3D Vision	Verona, Italy
2018	<b>Organizer</b> , <i>Indischer Länderabend</i> , Saarland University 2018	Saarbrücken
2017	<b>Student Volunteer</b> , UXcamp Europe 2017	Berlin, Germany
2015	<b>Organizer</b> , Arduino Day 2015, SRM University	Chennai, India
2015	<b>Head of Publicity</b> , TEDxSRMKattankulathur, SRM University	Chennai, India

## Personal Information

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**Nationality** Indian  
**Date of Birth** 25 May 1994  
**Languages** English (IELTS: 7.5), Hindi, Telugu, German (B1)  
**Hobbies** Hiking, Photography, Cooking, Swimming, Travelling