



Mohit Mendiratta

301,Bruchwiesenanlage
4,Dudwieler
Saarbrücken - 66125

E-mail: mohitmendiratta2014@gmail.com
Phone: +4917687121002

EDUCATION

PhD Candidate

October 2021 — Present

Max Planck Institute for Informatics and Saarland University

PhD student in the Visual Computing and Artificial Intelligence department under the supervision of Prof. Christian Theobalt.

Masters in Visual Computing

October 2018 — September 2021

University of Saarland

GPA - 1.4

Bachelor of Technology, Electrical and Electronics

August 2013 — June 2017

Kalinga Institute of Industrial Technology

WORK EXPERIENCE

Max Planck Institute for Informatics

August 2019 — September 2021

Research Assistant

- Developing an egocentric-driven videoconferencing to facilitate hand-free video calls, for instance on smart glasses or other mixed-reality devices. The device is a low cost wearable egocentric camera setup that can be integrated into smart glasses.
- Drive and motivation for career development and open to taking on challenges.
- Strong mathematical fundamentals, including linear algebra and numerical methods.
- Working directly with key application developers to understand the current and future problems they are solving, creating and optimizing core parallel algorithms and data structures to provide the best solutions using GPUs, through both library development and direct contribution to the applications.

Fraunhofer IZFP

January 2019 — October 2019

Research Assistant

- Application of advanced computer vision methods for Infrared thermography.
- Automation of image acquisition process.
- Generating and analyzing artificial data.

Zentron Labs

July 2017 — August 2018

Associate Software Engineer

Developed image processing algorithms and vision system design for Fruitron - Machine vision based high-speed colour, size, weight and defect sorting for fruits using visible, Infrared and ultraviolet technology and machine-learning algorithms. Key contributions include :

- Research and development of various fruit segmentation and tracking algorithms.
- Responsible for selection of optics and design of the vision system.

- Development and analysis of defect detection algorithms for UV and IR imaging.
- Color calibration across cameras to compensate for uneven illumination and camera sensitivity.

Zentron Labs

January 2017 — June 2017

Internship

- Designed and implemented fruit tracking and ejection system for India's first automated fruit sorting system (Fruitron).
- Responsible for interfacing, alignment and calibration of cameras and lights of the vision system.

AWARDS AND HONORS

- Saarland Scholarship for International Students (Summer Semester 2020) .

PUBLICATIONS

[1] Mohamed Elgharib*, **Mohit Mendiratta***, Justus Thies, Matthias Nießner, Hans-Peter Seidel, Ayush Tewari, Vladislav Golyanik, and Christian Theobalt. Egocentric Videoconferencing. ACM Transactions on Graphics (Proceedings SIGGRAPH Asia), 39(6), Dec 2020. *equal contribution

SKILLS

- **Programming languages and mathematical packages:** C++, Python, Matlab, LabView
- **Language:** English (**IELTS score 8, proficiency C1**), German **A1** , Proficient in regional languages Hindi and Bengali.