

SUBASH MANOHARAN

Camera ISP Engineer

DoB : 09/08/1998

e-mail : subashm.physics@gmail.com

Mobile : +91 9095795300

LinkedIn : [subashmanoharan](#)

PROFILE

- Passionate about Vision and Optics, with a focus on Camera Vision.
- Seeking R&D opportunities in Engineering, specializing in Camera Vision.
- Proficient in Camera ISP Tuning, handling test charts like ESFR-ISO, SFR, Macbeth, TE219, TE269, and also Lightbooth, IQ-FoV box, and LG3 types of Image quality lab equipment.
- Skilled in Image Quality (IQ) validation for surveillance, IPCAM, and ADAS cameras in Objective and Subjective test scenarios.
- Extensive hands-on experience in Camera Vision and IQ validation.
- Motivated to take on new challenges and advance technology.

JOB EXPERIENCE

Role	Tenure	Organization
Product Engineer Image Engineering & Optics	2023 - till date 1Y 1M	Ficosa India Engineering Center Pvt Ltd Hyderabad, India.
Product Engineer Image Engineering & Optics	2023 1M	Ficosa Automotive S.L.U Barcelona, Spain
Engineer (SW) Camera ISP Tuning	2021 -2023 1Y 10M	VVDN Technologies Pvt Ltd Kochi, India.

EDUCATION

2019- 2021	Sri Ramakrishna Mission Vidyalaya College of Arts & Science, Coimbatore Master of Science - Physics Post Graduate Diploma- Computer Application	78% 68%
2016 - 2019	SNR SONS COLLEGE, Coimbatore Bachelor of Science - Physics	78%

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Camera ISP Engineer

SKILLS

ISP Tools

- Chromatix - Basics
- Ambarella - Intermediate
- MyriadX - Basics
- Ingenic - Basics
- STUNE - Intermediate

Online Certification

- Lean Six Sigma (White & Yellow)
- Linux for Beginners
- Laser Fundamentals and Applications

Computer Literacy Basics

- Git, Linux , JIRA, Tortoise SVN

WORK SUMMARY

ISP Tuning

- Experience with day and night vision cameras - bullet, dome, semi-dome, microscope, and ADAS cameras.
- Worked with image sensors like IMX335, IMX327, S5K4ACXB3, and OV7955.
- Proficient in platforms such as Qualcomm Chromatix, Ambarella, Ingenic, MyriadX, and Samsung Stune.
- Expertise in optimizing image quality and improving camera performance under diverse lighting conditions.

Image Quality Validation

- Conducted comprehensive image quality validation using IMATEST - subjective and objective analysis with various test charts.
- Utilized types of equipment such as IQ-FoV box, Lightboot - Judge QC, LG3 - flicker mitigation, and Kino-Flo lights.
- Validated key aspects like color accuracy, sharpness, resolution, exposure, and distortion across ADAS, webcams, IP cameras, and AI-smart cameras.
- Expertise in handling charts like Macbeth, e-SFR ISO 12233, and checkerboard patterns to enhance camera output quality.

Lens Selection

- Supported the selection of customized lenses (fish-eye) for RVS and SVS cameras in automobiles, enhancing camera performance and driver visibility.
- Have good knowledge in international automotive test standards.

Image Quality Lab

- I have experience in establishing IQ labs, including the installation and setup of high-end equipment from Imatest and Image Engineering, such as the IQ-FoV box, ISO charts, and other advanced testing tools.