

JERIN GEOGY GEORGE

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Chennai, Tamil Nadu, 600036

SUMMARY

- Ph.D. scholar in the Department of Electrical Engineering at IIT Madras
- Research area: Computational Electromagnetics, Flat optics, Deep learning
- 5+ years of experience as Assistant Professor in Engineering
- University second rank holder in Master's degree
- Qualified GATE 2019

EDUCATION

Indian Institute of Technology, Madras

1st Year, Doctor of Philosophy

Department of Electrical Engineering

September 2020 - Present

Overall CGPA: 9.27/10

Vellore Institute of Technology, Vellore

Master of Technology

Automotive Electronics

2012-2014

Overall CGPA: 9.50/10

University Rank-2

College of Engineering, Chengannur

Bachelor of Technology

Electronics and Communication

2008-2012

Overall Score 74.85/100

First class

EXPERIENCE

Indian Institute of Technology Madras

Project Associate in Applied Optics Lab

Group led by Dr. Shanti Bhattacharya

Tamil Nadu, India

October 2019-August 2020

- This group mainly works in Flat optics, Diffractive optics, Optical MEMS sensors etc.
- My work was to design and fabricate a Diffractive Optical Element (DOE) that can demultiplex different Orbital Angular Momentum (OAM) states of light.
- The overall aim of the project was to implement OAM based high speed optical communication system.
- The project was funded by BRICS.

Amal Jyothi College of Engineering

Assistant Professor in Automobile Engineering

Kerala, India

July 2014-October 2019

- Courses offered: Control System, Electronic Devices and Circuits, Programming in C, Automotive Electrical and Electronics, etc.
- Faculty in charge of the Automotive Electronics Lab
- Program coordinator of BOSCH joint certification center.
- Co-convener of the Annual International Conference in Emerging Research Areas (AICERA) 2019.
- Apart from my academic responsibilities, my role involved mentoring graduate students and giving proper career guidance.

- Curriculum development and syllabus preparation for B.Tech Automobile Engineering 2019 scheme
- Formulated syllabus for 5 theory courses and 2 laboratory courses in Automobile Engineering
- University question paper setter

PUBLICATIONS

- Jerin Geogy George, Susan Thomas, Shanti Bhattacharya, "*Design of multi-wavelength dielectric metasurfaces using finite element software*", Asian Journal of Physics, Volume 30, Issue No. 4, 2021
- K Ganesan, JG George, PV Nithin, "*Real Time Secure Video Transmission Using Multicore CPUs and GPUs*", Advances in Computing 2015, 5(1): 1-8
- Nisha Varghese, Jerin Geogy George, "*Frequency Domain MMSE one-tap Equalizer for FBMC-OQAM System*", International Journal of Research and Innovations in Science Technology, Volume 2, 2015.

WORKSHOPS & CONFERENCES

- *Annual International Conference in Emerging Research Areas (AICERA)* at Amal Jyothi College of Engineering, Kottayam, Kerala, 2019
- Faculty Development Program on '*Machine Learning*' at Saintgits College of Engineering, Kottayam, Kerala, 2018
- Workshop on '*Internet of things using Raspberry Pi*' at Saintgits college of Engineering, Kottayam, Kerala, 2016
- Workshop on '*Internet of things on Intel Galileo board*' at Viday Academy of Science and Technology, Thrissur, Kerala, 2016
- BOSCH trainer's training on '*Electronic diagnostics*' at BOSCH service center, Bangalore, 2016

SKILLS

Programming skills:

C, OpenCV, CUDA, Matlab, OSLO, LaTeX

Extracurriculars:

Football, Chess.

Languages:

English, Malayalam, Hindi.