AJMAL BABU KC

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OBJECTIVE

Looking for a project position to make opportunities to learn and explore my skills in the field of optics, photonics and programming.

EDUCATION

5 Year Integrated M.Sc. in Photonics
Currently studying in 9th semester
Expected May, 2020 *Overall CGPA: 7.1/10.00*

P P M H S S Kottukkara
Class XII (Senior Secondary Examination),
April 2014 *Aggregate 83 %*

C H S Ozhukur
Class X (Secondary Examination),
April 2012 *Aggregate 95 %*

TECHNICAL

Languages : MATLAB, Python, C++, C, Comsol

SKILLS

Software : MATLAB, Lab view, Origin, Zeemax, MS Office
Electronics : Arduino, Raspberry Pi

PROJECTS

Simulation on the theoretical model of laser induced thermal lens effect using MATLAB software

Dec 2017 - April 2018

Academic project in 6th semester:

Guide: Dr. Manu Vaishakh, Professor, International School of Photonics, Cochin University of Science and Technology.

-The project work mainly focuses on the simulation on the theoretical model of laser induced thermal lens effect using MATLAB software. Apart from the parabolic refractive index distribution of the thermal lens , the aberrant nature of the thermal lens is considered in this model. A plot regarding the optimization of the thermal lens effect is also done that may give the idea about the positioning of the sample in the experimental setup, and these plots were comapared with some experimental data.

Simulation on live plotting of output from Fiber Optic Perimeter Intrusion Detector using MATLAB software.

May 2018 - June 2018

Internship at Fiber Optika Technologies Pvt Ltd:

The project work focussed on plotting the live output data from a device called Fiber Optic Perimeter Intrusion Detector developed at Fiber Optika. The code will save the plotted data and can be used for further usage.

RELEVANT COURSES

- Optoelectronics • Laser Physics • Nano photonics • Bio photonics
- Fiber Optics • Non-Linear Optics • Applied Optics
- Atomic and Molecular Spectroscopy.

ADDITIONAL ACTIVITIES

- Member of OSA student chapter (Optical Society of America).
- Organizing committee of IONS KOCHI 2017 (International OSA Network of Students).
- Attended Annual Photonics Workshop (APW) and National Photonics Symposium (NPS) conducted at International School of Photonics, CUSAT.
- Active participation in Optics Fair 2016 and 2017 organized by OSA student chapter, International School of Photonics.
- Member of SPiE Student Chapter.

REFERENCES

Dr. Manu Vaishakh
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