Anirudh Harathi

PROFESSIONAL EXPERIENCE

Software Engineer Feb '22 - Present

Collaborative Mind, LLC ("CMIND")

Responsibilities:

- *Build a Data Base management system and User Interface for logging in details based on authentication for product.*
- *Design and Implementation of MCU power control board capable of connecting to the network for data transfer.*

Senior Research Fellow Sep '21 - Jan '22

Electro Optical Instrument Research Academy,DRDO (a Society under the Ministry of Defence, GoI) Hyderabad, TS

The Academy is Established to carry out research and development in the area of Electro-Optics and related Technologies., Areas of Research: Lasers, Fiber optic sensors, Electronic and Mechanical packaging

Responsibilities:

- *Designed and Implemented a real time Temperature and Humidity monitoring system based on Wireless Sensor Network, Embedded C and LabView.*
- *Automation of Keysight* 33622A Waveform Generator through interface with python programming, LabView Programming.
- Working with Xilinx Zynq 7010 FPGA powered STEMlab Development board for sequencing and controlling light pulses in microsecond regime.

Junior Research Fellow Sep '19 - Sep '21

Electro Optical Instrument Research Academy,DRDO (a Society under the Ministry of Defence, GoI) Hyderabad, TS

Responsibilities:

- *Automation of Keysight E36313A Power supplies using LabView Programming.*
- *Designed and implemented customized power board using Autodesk EAGLE Software for powering AD9910 and AD9912 Digital synthesizer Board for control of an Acousto Optic Modulator for precise locking of Laser at a required Frequency.*
- *Automation of Scientific CCD Camera using Thorcam based on External Triggering method.*
- *Designed and Implemented a double pass RF controlled Acousto-Optic Modulator in a cat's eye configuration.*

Intern May '14 - Jul '14

BrighTex Bio-Photonics Hyderabad, TS

Industrial Training (C Programming) under Atrificial Intellegence team as part of the requirement for the award of the Degree M.Sc.(Tech.) Engineering Physics.

CONTACT

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SUMMARY

Researcher with Masters Degree in Engineering Physics with 2.5+ years of industrial research Experience at ELOIRA, DRDO with a zeal and motivation to learn, implement and deliver products with newer technologies.

KEY SKILLS

Languages:
Embedded C, JavaScript, ReactJS, Python, Verilog, MatLab, COMSOL MultiPhysics.
Operating System : Microsoft, Ubuntu.
Softwares/Tools*: STM32CubeIDE, Keil, LabView, MatLab, Jupyter Notebook,*
IDE*: STMCubeIDE, VSCode.*
Analytics*:*
Machine Learning, NLP

Mini Projects

- **Expense Tracker using ReactJS**
- **Calculator based on Javascript**

CERTIFICATIONS

- **Business Analytics| IMS Proschool, NSDC | Hyderabad | 28 Nov 2020**
- **Python for Data Science | IBM | Coursera | Nov 2020**
- **Introduction to matlab Programming | Coursera | May 2020**

Paper Publication

- Published paper titled "DC electric field measurement using FBG sensor" at IEEE 2015 Workshop on Recent Advances in Photonics (WRAP).
- DOI : 10.1109/WRAP.2015.7805952
- Date of Publication : 05 January 2017
- Conference Location: Bengaluru, India

EDUCATION

PG Diploma in Data Science Aug '20 - Aug '21

International Institute of Information Technology, Bengaluru Bengaluru, KA

Key Modules: Data Toolkit, Machine Learning I, Machine Learning II, Natural Language Processing, Capstone Project
Project: ***News Recommendation System using Rasa Framework***

Advanced PG Diploma VLSI and Embedded Systems Dec '20 - Aug '21

National Institute of Electronics and Information Technology, Calicut (NIELIT) Calicut, KL

Key Modules: Embedded C and ARM Cortex Microcontrollers, Verilog HDL, FPGA Based Embedded System Design, Industrial Product Design, Project.
Project: ***Real Time Water Quality Monitoring based on Wireless Sensor Network.***

Master of Science (Technology) Jun '12 - Jul '15

National Institute of Technology, Warangal (NIT Warangal) Warangal, TS

Post Graduate Degree in Engineering Physics with Specialization in Electronics

Key Course Modules Include: Electronic Devices and Circuits, Fiber Optic Communications, Optics, Digital System Design, Computer Programming, Laser Physics.

- *Project:* **DC electric field measurement using FBG sensor**

Theoretical analysis and Experimental verification of a fiber Bragggrating based sensor for measurement of DC electric fields using a PZT sensor. This improves the physical understanding of field distribution in air medium around high voltage apparatus.