

**Residence Address:**

Athira House  
Kothakulangara  
Angamaly-683572  
Ernakulam Dist

**Mobile:** 9400856129

**Objective:**

To be associated with a reputed & professionally managed organization, where knowledge & competencies can be used in challenging, growth-oriented assignments.

**Professional Experience:**

**Mar Athanasius College of Engineering, Mahatma Gandhi University, India**

**Assistant Professor**

**Key Responsibilities:**

- An innovative and knowledgeable professional having around **six months of experience**.
- Excellent knowledge of electronics technology and the new methodologies
- Excellent knowledge of the subject and also has great practical knowledge.
- Researching on different subjects and submitting the research papers to the education management committee.
- Participated in student recruitment, placement activities and attended various professional conferences.
- Assigning the project work to the students and handled various hardware laboratories.
- Organizing the workshops for students in order to provide them the additional knowledge.

**KC Kopar Energy Solutions Pvt Ltd**

**Technical Engineer (9 months Experience)**

**Key Responsibilities:**

- Dealing with CIAL Solar Projects
- Technical Design of the System
- On grid & Off Grid System Designing
- Troubleshooting & Real-Time Monitoring of the System
- Managing the service team & providing the proper technical guidance for service.

**Videotone Instruments (1year Experience).**

**Technical -Team Lead**

**Key Responsibilities:**

- Coordinating with team members to develop a detailed work plan and implementation schedule.
- Designing and Reviewing the technical specification of the solar PV plant
- Review and confirm the proposed technical design and configuration of the solar PV power plant
- Supervise and monitor the project implementation
- Coordinate all technical matters, and clarifies technical issues raised by the customer or internally
- Also handled the marine wing of the company, by online monitoring and supervising the maintenance and operation of marine equipment's.
- Recommends modifications and changes required
- Maintain appropriate records and prepares various operating reports.

## **Sree Sankara College, Kalady- BVoc (Renewable Energy Department)**

### **Lecturer- on contract basis**

#### **Key Responsibilities:**

- Handled subjects like Power Electronics, Basic Electronics, Renewable Energy-I, Renewable Energy II, Solar Photovoltaic Energy Conversion-I, Environmental Education, Solar Photovoltaics Lab.
- Guided the students project works and organized placement activities.
- Attended various professional conferences and Organized various seminars and workshops for students to enhance their academic knowledge.

#### **Technical Skills**

- General Programming Skills: C, C++
- Scientific Program and Language: Matlab, Simulink
  - Worked with core team and invented methods for users for interacting with MATLAB code
  - Integrated MATLAB with various applications
  - Performed numerical verification for existing projects
  - Programmed applications for complex mathematical solutions
- Machine learning : Basics
- PVsyst Software
- Ms Office (word, power point, excel)
- Hardware Implementation
- Design Experiments

#### **Achievements (Academic and Extra Curricular):**

- Worked as Executive Secretary in **KREEPA**( Kerala Renewable Energy and Entrepreneurs Association)
- Secured First position in National Level Seminar and Paper Presentation on topic “Green Technology in Wireless Communication” which was held at Royal Engineering College, Thrissur.
- Participated in Techkshetra 2010, a National Level Technical Fest conducted by Rajagiri School of Engineering and Technology, Kochi.
- Participated in Project Expo (Hardware) Competition for the National Level Techfest Infosys “Abhiyanthriki 2010” held at Rajagiri School of Engineering and Technology, Kochi.

#### **Educational Qualifications:**

<b>Degree</b>	<b>Institution</b>	<b>University/Country</b>	<b>Percentage/CGPA</b>	<b>Year of Passing</b>
Master of Technology (Communication Engineering)	N.S.S College of Engineering, Palakkad	Calicut University / India	8.04 (CGPA)	2013
Bachelor of Technology (Electronics & Communication Engineering)	Rajagiri School of Engineering & Technology, Kochi	M.G. University / India	68.11%	2011

#### **List of Publications**

- Arya and Dr. T Sudha, “Interference Management in MIMO Interference Systems,” in *Proc. of the 1st NCSEE.*, Aug. 2013, pp.406-410.
- Arya, “Interference Management and Energy Efficient Techniques in MIMO Interference Systems,” Communicated to International Conference on Control, Communication and Computing (ICCC 2013), Dec. 13-15, 2013, Thiruvananthapuram, Kerala, India.

### **Projects:**

- **Interference Management and Energy-Efficient Techniques in MIMO Interference Systems**  
*Description:* Linear zero forcing (ZF) and minimum mean squared error (MMSE) techniques have been compared, along with successive interference cancellation (SIC) variants of these methods. For improving energy efficiency in MIMO systems centralized and decentralized algorithms are performed along with scheduling.
- **Echo Cancellation using Adaptive Algorithm**  
*Description:* One of the major problems in a telecommunication application over a telephone system is echo. The echo cancellation algorithm used in this project was successfully attempted to find a software solution for problem of echoes in the telecommunication environment.
- **Laser Dimension Finder**  
*Description:* In this project using two laser beams the dimension of an object can be found without physically measuring it. The main application is that heights of monuments, buildings, towers etc can be measured using two laser beams which are focused on the object using Matlab.
- **Relay Interfaced with Digital Electronic Lock**  
*Description:* The project mainly deals with electronically locking each device using a 4 bit code. Each device can be selected using relay which is attached to it. It is used for highly secured purpose such as in mines, industrial applications etc.

### **Seminars:**

- **Green Technology in Wireless Communication**  
*Description:* Green Communications vision is to reduce overall energy consumption within framework of optimizing system capacity and maintaining user Quality of Service. The paper reviews recent energy efficient advances made at specific point within the communications cycle.
- **Radio-Efficient Modulation, Coding and Multiple Access Techniques: Green Communication Perspective**  
*Description:* An adaptive modulation and coding scheme is introduced to approach the maximum green efficiency, which provides an effective way to Green Communications. Multiple access techniques considering EE are discussed, where the design of energy-efficient OFDMA systems are emphasized.

### **Industrial Training:**

- DLE Department, H.A.L (Hindustan Aeronautics Limited) – Helicopter Division, Bangalore, India.
- **Advanced Mobile Communication** Training in BSNL Thiruvananthapuram, Kerala.

### **References:**

- Selvaraj T Nadar  
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Saudi Arabian Airlines  
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Ernakulam-683111, Kerala  
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- Dr T. Sudha  
Professor at Dept. of Electronics and Communication Engineering  
N.S.S College of Engineering  
Palakkad, Kerala

### **Declaration:**

I hereby declare that the information furnished above is true to the best of my knowledge and belief.

**Arya Sreejith**