ARUN ANNAMALAI E-Mail: arunannamalai88@gmail.com

MOBILE: 9003228778

Summary

Electrical and Electronics Engineer cum GIS Engineer

Electrical and Electronics Engineer with the ability to Analyse Complex Engineering problems, Design and execute solutions and to recommend alternatives and communicate recommendations effectively. As an individual who is interested in continuous professional development I have put in more than three years in multiple Electrical companies. This has resulted in professional competency in all operational and technical aspects of analog, digital design and fabrication. Seeking a full-time position with an Electrical and Electronics Company.

I have additional acquired domain specialization in the field of Image processing and spatial dataanalysis. Preformed multiple GIS analysis from inception to completion using ESRI 10.x software suite. Analysis includes extensive use of ArcTools for data management and analysis functions, as well as multiple address standardization and Geocoding software, to produce standard database, reports and cartographic maps. To put forward my sincere and honest service towards an organization which has its roots in GIS and Remote sensing. To obtain GIS Analyst position that fully utilizes my experience and abilities. Long term relationship with a company that is rapidly expanding and offers good advancement potential.

Education and Qualification:

2017 – 2019 **- University of Madras**

**Master of Technology in Geo Informatics**

**Key subjects: Remote Sensing, Digital cartography and GIS, GIS and Geo Visualization,**

**Mobile computation, WEB-GIS, Geo statistics and Spatial Data Analysis.**

2006- 2010 - Anna University

Bachelor of Engineering in Electrical and Electronics

Key Subjects: **Electrical Machines, Microprocessor and Microcontroller, Transmission and Distribution of Electrical Power**.

**Qualification Highlights:**

* Excellent understanding of Geographical Analysis.
* Use applicable software to create, translate, and integrate GIS data layers and digitize new data
* Strong computing skills from Spread sheet and Data base to GIS mapping software.
* Extensive experience of GIS software ARC map10.3 ,QGIS, ERDAS IMAGINE GRASS GIS,HEC-RAS.
* Skilled working with, testing for power transformers & distribution transformers.
* Clear knowledge about Power Transformer & Distribution transformers.
* Possess complex technical skills, flexible and hardworking.
* Development and maintenance of GIS database design and spatial data modeling.

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**PROJECTS:**

* INTERNSHIP PROJECT**:**

TITLE: COASTAL VULNERABILITY INDEX – CUDDALORE, TAMIL NADU, INDIA.

1. Assessing the Impact of sea level rise using Coastal Vulnerability Index with WEB-GIS capabilities for Coastal Cuddalore, Tamil Nadu.

2. Development of a WEB-GIS Based Socio-Economic Database for Coastal Tamil Nadu.

NATIONAL INSTITUTE OF OCEAN TECHNOLOGY

Guide: DR. TUNE USHA, SCIENTIST –F,

NATIONAL CENTRE FOR COASTAL RESEARCH,

MINISTRY OF EARTH SCIENCES, GOVT OF INDIA, NIOT

* INTERNSHIP PROJECT:

MAPPING OF METEOROLOGICAL STATIONS OF IMD USING GIS FUNCTIONALITIES

Guide: DR. B. AMUDHA,

SCIENTIST-E,

REGIONAL METREOROLOGICAL CENTRE, CHENNAI

* MINI PROJECT:

ASSESSMENT OF LAND USE LAND COVER AND CHANGE DETECTION

IN KANCHIPURAM DISTRICT, TAMIL NADU (1997-2017)

Guide: DR. R. JAGANATHAN,

HEAD OF THE DEPARTMENT,

EARTH AND ATMOSPHERIC SCIENCES,

UNIVERSITY OF MADRAS.

* FINAL PROJECT:

SITE SUITABILITY FOR SOLAR POWER PLANT BY USING GIS TECHNOLOGY,

ANNANUR, TAMIL NADU, INDIA.

Understanding the increased importance of renewable unconventional energy a project study was instituted for identifying niche method to find suitable location for deploying solar power plant. This study makes use of both Geographic as well as Arithmetic perspectives in identifying and Estimating the Quantity and Quality of Photovoltaic Potential , that is to what extent undertaking a project of this kind can prove to be beneficial for the public sector. And for achieving this commercially available GIS Tools have been Tapped for performing Advanced Spatial Analysis coupled with some basic mathematical formulae to quantity the amount of yield. x factor variable were selected as influential on-site suitability within the geospatial database to seek out increased annual average power performance and reduced potential investment costs, forming new criteria layers for site suitability: solar irradiation, sunshine hours, average temperature in summer, and slope.

PROJECT GUIDE: PROFESSOR DR. R. JAGANATHAN

HEAD OF THE DEPARTMENT,

EARTH AND ATMOSPHERIC SCIENCE,

UNIVERSITY OF MADRAS.

* JOURNAL PUBLISHED TITLE: SITE SUITABILITY FOR SOLAR POWER PLANT.

GUIDE: DR. S. SIVASANKAR, ASSISTANT PROFESSOR,

EARTH AND ATMOSPHERIC SCIENCES,

UNIVERSITY OF MADRAS.

**Career summary**:

Employer: SAP INDUSTRIES PVT LTD

Division: Testing engineer

Designation: Junior engineer – Electrical

Duration: April 2011 to December 2015

Job Responsibilities:

* Testing all type of Transformers
* Preparation of Test Report and allied Documentation for power equipment’s.
* Conduct in-depth analysis and suggest suitable recommendations.
* Supervise the Inspection process in each stage during production and on completion.
* Meeting challenging deadlines and confirmation to high levels of quality standards

Types of Test: Turns ratio test, D.C Resistance Test, Magnetic balance Test, Magnetizing current test, Short circuit Test, Open circuit Test.

NATIONAL SMALL INDUSTRIES CORPORATION (Government of India): - 2016 - 2017

Worked as Teaching Faculty in Department of Electronics,

SUBJECTS:

* PCB DESIGN – Electronic Circuit Designing by using Proteus software and OR-CAD.
* Basic Electronics Engineering
* UPS and inverter simulation.
* Solar Power System.

**Academic Qualification**:

* 2003 – 2005 Higher Secondary Certificate (HSC)
* 2002 – 2003 School Secondary Leaving Certificates (SSLC)

Additional Information

Technical:

Diploma in Auto CAD Electrical.

* Basics of Computer Networking and Hardware Installation.
* Good knowledge in Computer Hardware and peripherals.
* Good knowledge in Electrical and Electronics Equipment’s.
* Proficiency in ArcGIS, QGIS, GeoDA, ERDAS(Spatial analysis tools).

Personal:

* Active participant in the social Program on the Theme Sarva Siksha Abhiyan at presidency women’s High school during Bachelor’s degree.
* Member in the inter college cultural competitions, and attended Program Leader during Bachelor’s degree.
* Participated and won prizes in Karate and Art competitions.
* Class in-charge for the Entire Duration of Master of Technology Coordinating various Academic/non-academic/ Field Activities with close Cooperation of the Academic Faculty.

Personal Details:

Father’s Name : K. Annamalai

Gender : Male

Date of Birth : 20th April 1988

Address : 11, Annai Indira nagar, Dhargah road, Zamin Pallavaram, Chennai -600043.

Languages known: Tamil, English, (German for beginners)

I hereby declare that the above said information’s are true to my knowledge.

Date:

Place: Chennai. (Arun Annamalai)