

# BALA RAMESH.C

## ELECTRONICS AND COMMUNICATION ENGINEERING

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### PROFILE

Bachelor's in Electronics and Communication Engineering (ECE) with expertise in web development and antenna design using Ansoft HFSS. Full Stack Developer proficient in Python (Flask & Django), React JS (Redux), MySQL, JavaScript, Firebase, HTML, CSS, and Bootstrap. Passionate about leveraging technology for problem-solving and innovation, with a strong commitment to continuous learning and staying ahead with cutting-edge solutions.

### EDUCATION

#### BACHELOR OF ENGINEERING

(Electronics and Communication Engineering) CGPA-75%  
DMI Engineering College

#### HSC

M.BIO CGPA-70%  
Baliah Marthandam Higher Secondary School

#### SSLC

Baliah Marthandam Higher Secondary School CGPA-85.6%

### PROJECTS

#### PROJECT:1

##### AI CONTENT-ENGINE WITH REACT AND PYTHON FLASK

I developed an AI-driven platform to automate email content generation, enabling template storage and direct email sending. This project applied my expertise in Python, JavaScript, React with Redux, Flask, and tools like SQLAlchemy and Firebase. Utilizing MySQL and GitHub, it addressed real-world productivity challenges effectively.

**Github Link:** <https://github.com/BalaRamesh2411/AI-Content-engine>

**Live Link:** <http://ai-writer.agaram.academy/>

**REVIEWED BY:** Mr.Saravana Kumar (Working at IBM)

#### PROJECT:2

##### RESUME BUILDER WITH JAVASCRIPT AND FIREBASE

I developed a web-based resume builder application enabling users to create professional resumes effortlessly using customizable templates. Leveraging JavaScript, Bootstrap, and Firebase, the tool ensures responsive design and real-time data management. I was actively involved in all phases of the project, from planning to development.

### SKILLS

- Ansoft Hfss(Antenna Design)
- Orcad(Basic)
- Python
- Django & Flask
- React JS with Redux
- JavaScript (ES6)
- MySQL
- Firebase
- Git
- Html,Css
- Bootstrap
- Figma(TestDesign tool)

### COURSE&CERTIFICATE

#### FULL STACK WEB DEVELOPMENT

Completed 7 Month Full-Stack Web Development Course at Agaram Software Academy, Nagercovil

#### FRONTEND DEVELOPMENT

Completed 7 Month Frontend Development Course at Login360,Chennai

### PERSONAL TRAITS

- Good At Time Management.
- Hardwork With Full Of Interest
- Punctuality Person
- Leadership
- Self Confidence
- customer handling

### HOBBIES

- playing chess and badminton
- Listening to music
- Dancing

### LANGUAGE

- TAMIL(Native)
- ENGLISH

## PROJECT:3

### A WEARABLE FLEXIBLE GRAPHENE PATCH ANTENNA DESIGN FOR WIRELESS HUMAN MOTION MONITORING. (ANTENNA DESIGN)

A novel Laser-Induced Graphene (LIG) printed microstrip patch antenna operating at the 5.8-GHz unlicensed band is presented. The proposed design, based on simulations, exhibits unidirectional radiation characteristics with a measured gain of 1.86 dBi at the resonant frequency. This innovative approach leverages the unique properties of LIG to create a flexible, efficient, and sensitive antenna suitable for real-time human motion monitoring. .

## PROJECT:4

### SUSTAINABLE DIABETIC RETINOPATHY DIAGNOSIS SYSTEM USING IOT

The system utilizes sustainable computing to provide remote access for quick implementation, measuring glucose levels through Dexcom G4 Platinum sensors on diabetic patients. IoT platforms offer a sustainable solution for Diabetic Retinopathy, aiming to prevent vision loss. The platform securely collects and analyzes vast data from IoT devices, predicting valuable clinical insights. The proposed technique achieves 99.58% accuracy, 72.51% sensitivity, and 99.83% specificity, outperforming other methods in experimental settings.

## ACHIEVEMENTS

### JOURNAL PUBLISHED :

#### SUSTAINABLE DIABETIC RETINOPATHY DIAGNOSIS SYSTEM USING IOT

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#### Published by:-

INTERNATIONAL RESEARCH JOURNAL OF MULTIDISCIPLINARY TECHNOVATION (IRJMT) DOI:10.34256/irjmtcon10

### WORK SHOP/CONFERENCE ATTENDED

- Participated One day workshop in the title "Evaluation of the Control System".
- Present a paper on "Diabetic Retinopathy Diagnosis System using IoT" conducted by KS Rangasamy College of Technology, Namakkal

## PERSONAL DETAILS

DOB: 24-11-2000

Gender:Male

Father Name:Christhu Dhas

Nationality:Indian

Marital Status: Unmarried