

# JAGADEESHWARA CHANDRA BOSE.K

## Electrical and Electronics Engineering

|[Jatayujagadeesh@gmail.com](mailto:Jatayujagadeesh@gmail.com) | | [Linked In](#)|

Industry Preference: Automotive

|| (+91)9705233003.||

Tenali, Andhra Pradesh-522201.

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### CAREER OBJECTIVE:

A passionate **Electrical & Electronics Engineer** aiming a professional environment to enrich my skills in the field of Design. I would be able to deliver the best of my knowledge by utilizing the skills and the experience I had fruitfully gained, to design, implement and contribute towards the new technologies.

### INTERNSHIPS:

APOSIS SOLUTIONS - Bangalore

[08-04-2022 to 08-06-2022]

APOSIS SOLUTIONS – Associated with TECHNICHE IIT GUWAHATI

Project - Development of Model for Motor Power & Suspension System of Electric Vehicle using Simulink.

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### PROJECTS:

#### B.Tech Final year Major Project:

Collaborated on the Major project “*Modeling and simulation of the complete electric power train of a Hybrid electric vehicle*” with Associate professor **Mr.Devireddy Tirupathi rao garu**. The project aimed at designing a system that supplies constant DC power into 3-phase AC power in different modes of operation and interfaces all the power sources to **Permanent Magnet Synchronous Motor**.

- Designed a **2-Level Voltage Source Inverter**. The VSI Converts DC-AC 3-Phase.
- Designed the **SVPWM controller**.

#### B.Tech Final year Mini Project:

Collaborated on the Mini project “*High-Power Bidirectional DC–DC Converter for Aerospace Applications*” MATLAB / Simulation, with Associate professor **Mr. Shaker Babu garu**. The project aimed at designing a system that supplies constant power to the switching into different modes of operation and interfaces all the power loads via a DC/DC converter.

#### Diploma Final year Mini Project:

“*Simulation and Design of Battery for EV Applications*” using MATLAB Simulation The project aimed on Battery Management System (BMS) at different motor applications. January-2019.

#### Diploma Final year Mini Project:

“*Voltage source based on AC-DC converters*” using MATLAB/Simulation, The project aimed on various function of Power Electronics and different switching characteristics.

### INTERNSHIP:

Organization : **ANDHRA PRADESH POWER GENERATION CORPORATION LIMITED**

Plant : Vijayawada Thermal Power Station. 5\*210 KV & 500 Megawatts

Designation : Industrial Internship Trainee

Work place : 440KV Substation, Power Transformers, Battery chamber, Conveyers

Grade : Good.



## EDUCATION:

- Bachelor of Technology in Electrical & Electronics Engineering, JNTUK- St. Mary's group of institutions, Andhra Pradesh with aggregate CGPA of 6.8 in the year 2019-2022.
- Diploma in Electrical & Electronics Engineering, St. Mary's group of institutions. Andhra Pradesh with aggregate CGPA of 71.20 in the year 2015-2018.
- Secondary School of Education, SRS Municipal Boys high school, Andhra Pradesh with aggregate
- CGPA of 7.8 in the year 2015.

## EXPERIENCE:

ASSISTANT ENGINEER, **AMARARAJA BATTERIES LIMITED**, Chittoor - A.P

IBD-Industrial Battery Division -- MVRLA-Medium Value Regulated Lead Acid Battery

Department : (ELECTRICAL TESTING LAB – QUALITY ASSURANCE)

Functional area : (BMS) - Battery management system.

Duration : 21- August-2019 to 23-October- 2020.



### **Responsibilities:**

- Electrical Testing Analysis Lab. (Discharge process – Compliance Test, Life Cycle Test)
- Manual Testing and Auto Testing.
- Data logger data reports
- Tear Down Analysis Lab and Field return Analysis.
- Analysis of failure in battery pack troubleshooting and preparing daily report.
- Identifying root cause analysis using the data acquisition.

**Customer Inspections** – Railway's, RITES, and Process Engineering ,Internal Inspections.

## RELEVANT SKILLS:

* Linux Systems	* C – programming	* MATLAB- Simulink
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## RELEVANT SKILLS:

* Facility Management	* Analysis Safety Permit	* Attention to Detail
* Creative Thinker	* Auditing Skills	* Machinery Utilization
* Technical Proceedings	* Documentation	* Time management

## POSITION OF RESPONSIBILITY AND SOCIAL WORK

**NATIONAL CANDIDATE CROP [NCC], 22Andhra Bn, Tenali – Andhrapradesh.** 2012-2014

- NCC-“A” with certificate rank holder
- All INDIA TREKKING EXPEDITION – AP TREK - 2013 Camp – Tirupathi, Andharpradesh, India.
- Annual Training Camp – Tenali, Andhrapradesh, India.
- President of the School Student Body for two consecutive years of SMGIG.
- Former head of Public Relation & cultural committee in Student Active Council of SMGIG.