Saravana Shankar Bujji

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EMBEDDED HARDWARE ENGINEER

4+ years of work experience in Component Engineering, PCB Design & Assembly, & Testing Troubleshooting electronics circuits — with Personal interest Learned the basic of statistical programming language - Python.

KEY COMPETENCIES

Component Engineering (CE), Value Analysis & Value Engineering (VAVE), WCCA, DRBFM & FMEA	Multi layer PCB Design - OrCAD / Allegro 17.4, Basics of PSpice & LT spice	Basics Embedded C & SQL, Power BI

PROFESSIONAL EXPERIENCE

Tech Mahindra, Bangalore   **June 2023 - Present**
Ignitive Minds Consulting and Service Pvt Ltd - Sr. Engineer
Working as a **VAVE & Testing Engineer in Tech Mahindra for Automotive Domain**

Accomplishments:

Project - ZF (UK) - ECU, Telematics & ADAS - VAVE Ideas, Technical Comparison & DRBFM

- Increases profitability by driving design changes or substituting suppliers to reduce overall BOM cost. Facilitate cross-functional workshops to develop cost-reduction ideas.
- Work with the Test and Validation group to plan and maintain timing to validate the cost-reduction ideas for multiple divisions and sections in automotive.
- Preparing relevant reports for cost decisions with a Technical Specification Analysis worksheet (status reports of ongoing activities, progress towards savings target implementation, and forward workshop planning).

HCL Technologies - Bangalore   **Dec 2021 - Dec 2022**
Contract Retainer
worked as a Component Engineer in Johnson &Controls (USA)
Verification Engineer in KONE Elevators India

Accomplishments:

Project -1 - Johnson& Controls (USA)

- Responsible for finding the alternative Active and Passive components for the existing single-source component in the client PDM database.
- Evaluate the component's technical parameters & analyze the functional aspect, must check its footprint, design & other technical parameters details mentioned in the datasheet.
- creating the spreadsheet of the components and making a comparison table with the alternative proposed component and getting verified from the client.
- Additionally Responsible for the Chipsets and suggesting the technical improved alternative chipset and making Confidential documents and proposing it to the client.
- Creating and editing the symbols of active and passive components as per the client's requirement and uploading it to their PDM database using Cadence- OrCAD / Allegro.

Project - 2 - KONE Elevators India, Chennai

- Checking the Bill Of Materials auto-generated by the SAP software and adding the missed out & project-specific materials.
- Generating the Wiring Diagram files and uploading the materials and diagram in the Database.

BDI systems & Technologies Pvt Ltd - Bangalore   **Feb 2017 - Nov 2018**
Vehicle Hardware Engineer
Developed a Telematics Test Giga for New Analytics base UI Web Development

Accomplishments:

- Research & analysis in various globally available fleet tracking devices. Collaborate with stakeholders and Development team to understand Product Requirements and took responsibility for hardware development & Testing.
- Schematic, component Placement & Gerber Creation was Designed and developed a 2G Asset Tracker from scratch a 4-layer PCB board and created a WCCA spreadsheet.

Solinas Integrity Private Limited, IIT madras Research Park   **July 2019 - Feb 2021**

Electrical and Electronics Engineer

Joined GET and Learned to develop Hardware prototypes, Schematic, component selection, PCB Standards and generate Gerber.

Accomplishments:

- Developed a prototype for a sensing & control unit, and performs troubleshooting activities on a variety of highly complex electrical and electronic assemblies for Remotely Operated Pipe monitoring rover.
- Additionally, worked on product testing and verification processes by deploying the robot on the test field and testing individual sub-assemblies operations.
- Done advanced SMD/SMT soldering operations and built stronger laboratory skills with repairing, Prototyping, and debugging PCB circuit boards.
- Good Understanding of I2C, SPI, UART Communication Protocols, and Costing Analysis and choosing the low-cost components.
- Hands-on experience in RPS, Digital Multi Meter, Oscilloscope, and Function generator.
- Basic understanding of SQL database & worked in the preliminary data analysis part using Python.

INDUSTRIAL PROJECTS

ECU, Telematics & ADAS - VAVE Ideas, Technical Comparison & DRBFM

Tech Mahindra - VAVE & Testing Engineer

Single Source Components

HCL Technologies - Component & Verification Engineer

Asset Tracker with Oxygen Monitoring   -Link

BDI Systems and Technologies - Vehicle Hardware Engineer

i-Globus - An Intelligent Spherical Robot

Solinas Integrity Private Limited - Electrical and Electronics Engineer

Endobot - Rover

Solinas Integrity Private Limited - GET

EDUCATION

SRM Easwari Engineering College (Anna University)

(2014 -2017)

Bachelor in Electrical & Electronics Engineering

Panimalar Polytechnic College (DOTE)

(2011 - 2014)

Diploma in Electrical & Electronics Engineering