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KEY AREAS

- Vehicle Diagnostics & Trouble Shooting
- Wiring Harness Development
- Software Logics
- Schematics
- EV Architecture development

PROJECT HANDLED

- 9M EV Buses
- 12M EV Buses
- 7M EV Buses
- 12M EULE Buses
- 2T E-Dost
- 3.5T E-Bada Dost
- Mahindra supromaxi E-retrofitment Kit
- 1.8T 4x4 OFF-road E agri-vehicle

SELVA KUMAR V

PROFESSIONAL SUMMARY

Electrical engineering professional prepared for leadership roles in dynamic environments. Proven track record in managing large-scale electrical projects with focus on innovation and efficiency. Known for team collaboration and achieving results, showcasing skills in project management and technical analysis.

SKILLS

- Project management
- Energy management systems
- Electrical schematics development
- Circuit analysis expertise
- Electrical testing procedures
- Time management
- Team leadership
- Electrical design
- Motor control systems
- Electromagnetic compatibility
- Power system design
- Power electronics
- Problem-solving
- Critical thinking
- Electrical testing
- Wiring schematics

WORK HISTORY

October 2024 - Current

Boson Motors Pvt. Ltd. - Lead Electrical Engineer - NPD & Vehicle Testing,
Chennai, Tamil Nadu

- Lead the design and integration of electrical systems for new electric vehicle products
- Managed vehicle testing and validation of electrical systems for performance and safety
- Supervised the troubleshooting and fault diagnosis of electrical systems in prototype vehicles
- Coordinated the development and calibration of vehicle software and embedded control systems
- Ensured compliance with safety standards and regulations (e.g., ISO 26262, EMC/EMI)
- Collaborated cross-functionally with mechanical, software, and manufacturing teams
- Conducted root cause analysis and implemented corrective actions for electrical failures

July 2023 - October 2024

Automotive Robotics India Pvt. Ltd. - Senior Engineer - Design & Product Development, Chennai, Tamil Nadu

- Lead design, validation, and retro-fitment of EV wiring harnesses, ensuring compliance with customer and safety standards

VENDOR COLLABORATIONS

Parts Handled:

- Lithium batteries
- Traction Motors
- DC-DC converters
- Inverters, Clusters
- Wiring Harness (HV, LV)

Vendors Handled :

- Microvast
- CLN energy
- Sun Mobility
- Heppu
- UQM
- TM4
- BEL
- Sensing technology
- Borgwarner
- Pricol
- Sloki
- Amphenol PCD
- Mindasai
- Motherson
- HTL
- Yesaki
- Sri Abirami Cable Industries

CERTIFICATIONS

- Completed Level 3- HV handling & Safety trainings

EQUIPMENTS HANDLED

- P-CAN
- Vector Cananlyser
- IXXAT USB-CAN
- Merger
- Insulation Tester

- Managed supplier relationships, ensuring adherence to specifications, quality, and design approvals for wiring harness builds
- Directed a team of 4 engineers to develop, validate, and integrate electrical systems for new EV products
- Conducted motor and battery calculations to optimize performance, efficiency, and cost for new EVs
- Designed and developed LV/HV wiring harnesses using Creo7, ensuring compliance with EV standards and safety protocols
- Led testing and validation of prototypes, ensuring reliable software and wiring integration across systems
- Diagnosed and resolved electrical system issues, improving reliability and performance through structured analysis
- Created and released accurate CAD models, schematics, and technical documentation for production
- Lead fast-charging trials, analyzing CAN logs to optimize vehicle software and charging logic
- Managed EMI/EMC compliance, optimizing cable design for electromagnetic compatibility
- Conducted DFMEA to mitigate risks and implemented improvements for system reliability and safety
- Ensured vehicle development met homologation standards, adhering to industry regulations for global markets

November 2021 - July 2023

Switch Mobility Automotive Pvt. Ltd. - Assistant Manager - EV Operations,
Chennai, Tamil Nadu

- Optimized workforce, tools, and resources for production efficiency.
- Built strong supplier relationships to ensure timely delivery and resolve technical challenges.
- Managed final inspections, testing, and smooth vehicle dispatch.
- Maintained industry-standard records and regulatory documentation.
- Laed and trained a team of 10 engineers to ensure high-quality EV production.
- Ensured EVs met AI038-Rev 2 safety standards through risk assessments.
- Managed production schedules, material availability, and customer satisfaction.

January 2019 - October 2021

Ashok Leyland - New Product Development Engineer - EV Division,
Chennai, Tamil Nadu

- Ensured compliance with safety and quality standards.
- Installed and calibrated HV component software for optimized vehicle performance.
- Conducted bonding and isolation tests for vehicle safety.
- Resolved electrical system issues to ensure vehicle functionality.
- Validated PROTO vehicles for system safety and performance.
- Created detailed work instructions for HV battery, power electronics, and routing.
- Performed final vehicle inspections following AL protocols.
- Designed routing practices to prevent thermal issues.
- Assisted remote teams in diagnosing and resolving issues.
- Participated in ORT audits ensuring adherence to industry standards.
- Maintained a database of build, commissioning, and field issues for improvements.

- Ground Bond tester
- Isolation Testing Equipment

EDUCATION

B.E EEE, Electrical Engineering
CAPE INSTITUTE OF TECHNOLOG, ANJUGRAMAM
TIRUNELVEL DISTRICT
April 2016

- Final Grade: [Number]%65.32
- [Project Name], [Project Results Statement] -
Research Project: Wireless charger for electric vehicles

High School Diploma
S.R.K.B.V.M.H.S.SCHOOL,
Kulase Kharam
March 2012

LANGUAGES

Tamil
Bilingual or Proficient (C2)

English
Bilingual or Proficient (C2)

Malayalam
Upper intermediate (B2)

Hindi
Intermediate (B1)

PERSONAL DETAILS

Date of Birth: 26/07/1995
Nationality: Indian
Marital Status: Single
Visa Status: nil
Gender: Male
Passport: P7415420

- Managed BMS and thermal systems for performance and safety.
- Designed custom in-house harnesses for ECU flashing.

February 2018 - December 2018
Krysalis Consultancy Pvt. Ltd. - Design Engineer (Electrical), Chennai, Tamil Nadu

- Designed electrical architecture, HV/LV schematics & DC-DC converters
- Performed fault analysis & CAN diagnostics using P-CAN & Vector Canalyzer
- Optimized existing designs, reducing production costs and enhancing overall performance.
- Streamlined the design process for increased efficiency by utilizing advanced CAD software tools.
- Addressed design challenges and evaluated alternative design models to meet project requirements.
- Improved product quality by conducting detailed design reviews and implementing necessary changes.

September 2016 - January 2018
Kirloskar Brothers Ltd. - Maintenance Supervisor, Perunchani, Kulase Kharam

- Lead hydroelectric plant maintenance & overhaul of Perunchani Hydroelectric Power Plant (650KW)
- Ensured HV cable insulation & compliance with safety standards
- Coordinated preventative maintenance schedules, verifying equipment safety and function.
- Facilitated strong communication between maintenance personnel and other departments to ensure seamless coordination during planned outages or emergency situations.