JAWAHAR BHARANITHARAN

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Results-driven Mechatronics Engineer with 2.5+ years of experience at **Renault Nissan Technology Business Centre India (RNTBCI)**, specializing in **EV diagnostics, Python-based process automation, embedded systems, and automotive communication protocols**. Proven ability to independently lead high-impact automation and prototyping initiatives that improve productivity, quality, and business scope. Strong collaborator with a track record of awards, customer confidence building, and continuous improvement.

PROFESSIONAL EXPERIENCE

ENGINEER – POWERTRAIN DIVISION, EMBEDDED SOFTWARE INDUSTRIALIZATION

Renault Nissan Technology Business Centre India (RNTBCI) | MWC, Chennai

JUNE 2023 – PRESENT

Working in EV powertrain diagnostics documentation and HIL testing.

- Led development of "OneStep" **Python automation** for EV diagnostic document generation, improving **productivity by 70% and saving ~800 hours/year**; awarded **Best Individual Contributor (**Q1 2025).

- Built an Arduino-based BMS prototype demonstrating Base Software validation and **CAN/UDS** communication using Vector **VN1610 and CANalyzer**, directly enabling acquisition of new customer BSW validation work.

- Established a **CAN validation test bench** from scratch by integrating BMS and ECM ECUs, identifying wake-up conditions, and validating communication using **Renault DDT** and **CANalyzer**.

- Re-engineered request handling by implementing a **SharePoint-based project tracking system**, improving delivery visibility, traceability, and metrics.

- Developed a **chat-based AI agent** to auto-generate user manuals from source code, reducing documentation effort and ensuring consistency.

- Contributed to multiple python automations to improve teams efficiency and deliverable quality

EDUCATION

B.E. IN MECHATRONICS ENGINEERING - Agni College of Technology (2019 – 2023)

- Best Outgoing Student (2023) – Awarded in recognition of academics, research projects, and co-curricular activities
- Board of Studies Member (2024–2027) - Review and update the curriculum to keep it aligned with industry needs

SKILLS

- Python (Pandas, docx)
- CAN, UDS, EV Diagnostics
- SharePoint, Microsoft tools

- HIL Testing, ECU Validation
- Renault DDT, Vector CANalyzer, CANoe
- Graphic Design & Technical Documentation