## ACCOLADE ELECTRONICS PVT. LTD.



Requirements document for Raspberry-Pi based tool for CAN simulation & debug log collection

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### Requirements for Raspberry Pi Tool:

- 1. Tool will be used for the collecting the debug logs of field trail devices.
- 2. Tool has memory card to store the debug logs.
- 3. CAN tool with DBC file connected to USB port of Raspberry Pi based tool to send continuous CAN data to device.
- 4. RS 232 Serial Cable is connected to another USB port of Raspberry Pi based tool to collect the debug logs & store it into the memory.
- 5. Tool is supposed to collect the logs of field trail device without Jig & PC.
- 6. Power & IGN signals will be taken from the vehicle mobile charging socket.
- 7. After field trail transfer the logs to PC for debugging (Manually).

#### Actions need to take:

- 1. Need to finalize Raspberry Pi board version (Compatible with 12V DC).
- 2. Need to finalize RS485 CAN HAT board version (Compatible with our DBC file).
- 3. Need to check feasibility for storing capacity of debug logs w.r.t. memory capacity of Raspberry Pi.
- 4. Validate integration feasibility between CAN & Raspberry Pi board.
- 5. Need to check feasibility for PWR & IGN connection through vehicle mobile charging point.

#### ❖ Benefits:

- 1. Collecting the real time logs at the time of vehicle is in moving.
- 2. It reduces the Jig dependency.
- 3. It reduces the Manpower dependency.
- 4. It reduces the PC dependency.



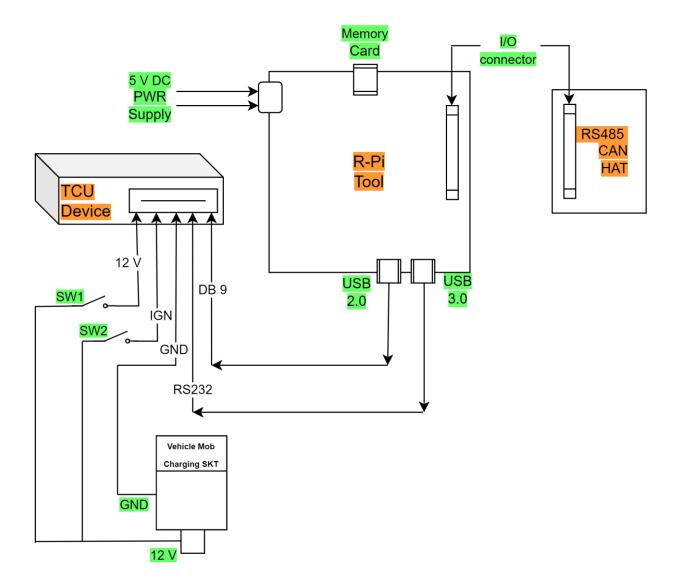
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Proposed design: Raspberry-Pi based tool for CAN simulation & debug log collection

### Raspberry-Pi based tool for CAN simulation & debug log collection



Note: The requirements can be changes as per further modifications/development requirements.