

GAUTAM KUMAR

EMBEDDED SYSTEMS ENGINEER

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ABOUT ME

5+ years of Embedded Systems in Automotive Domain with expertise in CAN, LIN, Ethernet, ISO11783, and J1939 protocols. Skilled in Embedded C, UART, SPI, I2C, debugging, and system integration. Experienced in SIL/MIL testing, Agile development, and Git version control. Passionate about creating efficient, reliable embedded solutions for cutting-edge applications.

TECHNICAL SKILLS

Programming Languages: Embedded C

Embedded Diagnostic Tools: Vector Tool, CANalyzer, Wireshark, OBD

Automotive Protocols: SAE J1939, ISO 26262, ISO-11898, ISO 11783

Development Tools: Visual Studio, MATLAB/Simulink, GitHub, Jenkins

Communication Protocols: CAN, UART, I2C, SPI, Ethernet, LIN

PROFESSIONAL EXPERIENCE

Senior Engineer II, John Deere India Pvt. Ltd, Pune

July 2019 - Present

- Delivered 10+ projects focused on 32-bit Embedded OS, virtual terminal apps, and advanced diagnostics for automotive-grade systems.
- Utilized Vector tools (CANalyzer, CANdb++) for CAN bus analysis, DRC file generation, and ECU diagnostics, improving system reliability and logging efficiency.
- Hands on experience in designing & developing Embedded Software including board bring up, testing & debugging.
- Hands on experience of Test Driven Development of Software using Gtest, SIL, HIL
- Knowledge of CAN, J1939, Serial Communication and exposure of UART, SPI & I2C
- Hands on experience of creating a Vehicle level Test Box from schematic diagram.
- Knowledge of Linux & RTOS

EDUCATION

Masters of Technology, NIT Allahabad

Aug 2017 - June 2019

- Major in Power Electronics & Drives.
- Thesis on "Isolated Bidirectional DC-DC LLC Resonant Converter Suitable for an Energy Storage System and Photovoltaic system".

Bachelor of Engineering

May 2012 - May 2016

Shri Shankaracharya Technical Campus

- Electrical & Electronics Engineering

ADDITIONAL INFORMATION

- **Languages:** English, Hindi.
- **Certifications:** Programming with MATLAB, ScrumMaster
- **Publications:** Filed a Defensive Publication on "Automatic Detection of Seed Type"