

DWARAPUREDDY RAMADEVI

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PROFESSIONAL SUMMARY

Results-driven Embedded Software Engineer with expertise in automotive embedded systems. Skilled in C, C++, Embedded C, and Linux programming, with strong knowledge of UART, CAN, and I2C protocols. Proficient in hardware-software integration, real-time data logging, and microcontroller-based development. Adept at troubleshooting and optimizing embedded systems for performance. Passionate about developing innovative solutions for the automotive and EV sectors.

EDUCATION

SAGI RAM KRISHNAM RAJU ENGINEERING COLLEGE, Bhimavaram, AP

B.Tech - Electrical & Electronics Engineering (CGPA: 7.40) | June 2018 – May 2022

N.R.I JUNIOR COLLEGE, Visakhapatnam, AP

Intermediate (MPC) (Percentage: 91.9%) | June 2016 – April 2018

Z.P.G.H GIRLS HIGH SCHOOL, Vemulapudi, AP

SSC (GPA: 9.3)

EXPERIENCE

People Tech Group Inc., Hyderabad, Telangana

Software Engineer (Developer I) | Oct 2022 – Feb 2024

- Developed a low-cost infotainment system for electric bikes with Bluetooth connectivity and graphical support.
 - Integrated Motor and Battery Management System (BMS) data using CAN protocol for real-time monitoring.
 - Implemented a UART-based logging system to capture and analyze vehicle performance data.
 - Worked with SAM9X60 microcontroller, optimizing system resources and data handling.
 - Integrated RGB display and managed external interrupts for efficient UI updates.
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TECHNICAL SKILLS

- **Embedded Systems:** Linux system programming, real-time debugging
 - **Programming Languages:** C, C++, Embedded C, Python
 - **Automotive Protocols:** UART, CAN, I2C, SPI
 - **Microcontroller Expertise:** SAM9X60, 8051, Arduino, ARM-based MCUs
 - **Hardware-Software Integration:** Sensor interfacing, firmware development, PCB debugging
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PROJECTS

Digital Clock Display on Dot Matrix Display (Dec 2022)

- Designed a digital clock using an 8051 microcontroller with time editing functionality.
- Utilized UART for user interaction and an I2C RTC module for accurate timekeeping.
- Integrated four multiplexed 8x8 dot matrix displays for a compact, high-visibility output.

Speed Control of BLDC Motor via Android Application (May 2020)

- Developed a wireless BLDC motor control system using Bluetooth and PWM techniques.
 - Implemented communication between an Android application and Arduino UNO.
 - Enabled real-time speed adjustments through a user-friendly mobile interface.
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CERTIFICATIONS & TRAINING

Advanced Embedded Systems, Vector India, Hyderabad

- Specialized in automotive protocols, microcontroller interfacing, and embedded system optimization.
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ADDITIONAL INFORMATION

- **Languages:** English, Telugu
 - **Interests:** Automotive technology, Embedded system research, IoT development
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