

“BIT ADVANCE PROCESSING UNIT”

“Embedded Design Engineer “

Shape the Future of Connected Devices: Join Our Embedded Design Team!

Are you a passionate Embedded Design Engineer looking to push the boundaries of innovation?

Bit Advance is seeking talented and driven Embedded Design Engineers to join our dynamic R&D team in Pune. We're at the forefront of developing cutting-edge embedded systems for a diverse range of industries, from IoT and automotive to industrial automation and consumer electronics. If you thrive on technical challenges, have a knack for problem-solving, and want to see your designs come to life in real-world applications, this is your opportunity!

Why Bit Advance Solutions?

- **Impactful Projects:** Work on exciting, high-impact projects that define the next generation of smart products and solutions.
 - **Cutting-Edge Technology:** Get hands-on with the latest microcontrollers, processors, sensors, and communication protocols (e.g., ARM Cortex-M, RISC-V, FreeRTOS, Embedded C, GSM/GPRS, MQTT, TCP/IP, HTTP, FTP, Wi-Fi, BLE, LoRa, CAN).
 - **Collaborative Environment:** Join a team of brilliant engineers, where knowledge sharing and mutual growth are highly valued.
 - **Career Growth:** We invest in our employees' development with continuous learning opportunities, mentorship, and clear paths for advancement.
 - **Innovation Culture:** Be part of a company that encourages creativity, experimentation, and out-of-the-box thinking.
 - **Competitive Compensation:** We offer attractive salary packages and comprehensive benefits.
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What You'll Do:

As an Embedded Design Engineer at Bit Advance, you will:

- Design, develop, and test robust and efficient embedded software and firmware for new products.

- Collaborate closely with hardware engineers to define system architecture, requirements, and specifications.
 - Implement low-level drivers, communication protocols (I2C, SPI, UART, CAN, USB, Ethernet), and peripheral interfaces.
 - Debug and troubleshoot complex issues across hardware and software domains using oscilloscopes, logic analyzers, and JTAG debuggers.
 - Optimize code for performance, memory footprint, and power consumption in resource-constrained environments.
 - Contribute to technical documentation, including design specifications, test plans, and user manuals.
 - Participate in design reviews and contribute to architectural decisions.
 - Stay updated with the latest industry trends and emerging technologies.
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What You Bring:

- Bachelor's or Master's degree in Electrical Engineering, Electronics Engineering, Computer Engineering, or a related field.
- Proven experience 2+ years in embedded systems design and development.
- Strong proficiency in **C/C++ programming** for embedded systems.
- Experience with **microcontrollers** (e.g., Renesas, STM32, NXP, PIC) and/or **microprocessors** (e.g., ARM Cortex-A).
- Familiarity with **RTOS** (Real-Time Operating Systems) such as FreeRTOS, VxWorks, or Embedded Linux.
- Hands-on experience with hardware-software integration, debugging, and testing.
- Knowledge of various communication protocols (e.g., I2C, SPI, UART, CAN, USB, MODBUS, MQTT, GSM/GPRS, Ethernet, Wi-Fi, Bluetooth).
- Ability to read and interpret schematics and datasheets.
- Strong problem-solving skills and a meticulous attention to detail.
- Excellent communication and teamwork abilities.

Location: Pune, Maharashtra, India

Ready to innovate with us?

Apply Now! hr@bitadvanced.com