



आईआईटीआई दृष्टि सीपीएस फाउंडेशन, भारतीय प्रौद्योगिकी संस्थान इन्दौर

खंडवा रोड, सिमरोल, इन्दौर – 453 552, मध्य प्रदेश, भारत

**IITI DRISHTI CPS Foundation, Indian Institute of Technology Indore**

Khandwa Road, Simrol, Indore - 453 552, Madhya Pradesh, India

CIN: U73100MP2020NPL054322

**IITI DRISHTI CPS FOUNDATION**  
**(A Section 8 - Not for Profit Company)**

Advt. No. – IITI-DRISHTI-CPS/Sec-8/2026/05

Date: 06<sup>th</sup> February 2026

IITI DRISHTI CPS Foundation is a Technology Translation Research Park (TTRP) hosted at IIT Indore and supported by the Department of Science & Technology (DST), Government of India. The Foundation focuses on Digital Healthcare, Cyber-Physical Systems, system simulation and modelling, translational research, and commercialization of deep-tech innovations. The Foundation works closely with researchers, clinicians, hospitals, healthcare institutions, government bodies, and industry partners to translate technologies from early-stage research to large-scale deployment and commercialization. One of the flagship platforms developed in-house is CharakDT, a rapidly evolving Digital Health and Clinical Decision Support ecosystem. More details about the company are available at: <http://drishticps.iiti.ac.in/>

**Job Title:** Engineer (Embedded Systems)

**Job Location:** IIT Indore (Onsite)

We are looking for a highly skilled Mid–Senior AR/VR Developer with strong expertise in Unity Technologies to design, architect, and develop advanced immersive healthcare applications. The candidate will work on medical simulations, digital twin visualizations, clinical training platforms, and patient-therapy solutions using AR/VR technologies.

### **Key Roles & Responsibilities**

- Design and develop end-to-end embedded and IoT solutions for connected devices in healthcare and smart manufacturing domains.
- Develop and maintain embedded firmware using Embedded C/C++ and Python, ensuring performance, reliability, and scalability.
- Work with ARM-based microcontrollers and peripherals, including board bring-up and hardware–firmware integration.
- Implement and debug wired and wireless communication protocols (UART, SPI, I2C, CAN, RS485, Wi-Fi, BLE) and IoT protocols (MQTT, Modbus RTU/TCP, OPC UA, CoAP, AMQP).
- Collaborate on cloud connectivity (e.g., AWS, Azure) for edge-to-cloud integrations.
- Contribute to hardware design, PCB design, testing, and validation of embedded hardware.
- Perform system-level debugging, optimization, and root-cause analysis for field and production issues.
- Create and maintain technical and regulatory documentation and collaborate with cross-functional teams to deliver compliant products.



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## Skills:

- 5+ years of hands-on experience in Embedded C/C++ and RTOS (FreeRTOS) on ARM Cortex-M microcontrollers.
- Experience with Python (automation/scripting) and MicroPython (rapid prototyping).
- Experience with server connectivity using MQTT and HTTP for data communication and remote monitoring.
- Strong expertise in hardware design, schematic & PCB layout, board bring-up, and hardware-firmware integration.
- Experience with UART, SPI, I2C, CAN/RS485, and advanced debugging using oscilloscope and logic analyzer.
- Hands-on exposure to biomedical and medical sensors and low-power, battery-operated medical devices.
- Solid understanding of testing, validation, and fault-tolerant system design.
- Prior experience with regulated healthcare/medical devices and familiarity with IEC 60601, IEC 62304, ISO 13485, and ISO 14971 is highly preferred.

## Qualifications & Experience

- **Education:** B.Tech/M.Tech or equivalent
- **Experience:** 4+ years

## Compensation: As per Industry Standards

Interested candidates may [click here](#) to submit the application.

Only shortlisted candidates will be called for a written test/interaction/interview. Mere fulfillment of the eligibility criteria does not entitle an applicant to be shortlisted. All the applications will be thoroughly evaluated for suitability with the company's requirements. The company reserves the right to not fill up /cancel the post advertised without assigning any reason. In the case of selection, the role will be finalized by the selection panel and the decision will be binding. The position is contractual, full-time in nature and subject to periodic performance reviews.