

Embedded IoT in Medical Space

 Duration: 5 Days

 Available Languages: English

Audience

Electronics Engineers, Students, Software developers, Project managers and anyone willing to learn Embedded IoT in medical space.

Goals

Learn and Explore Embedded IoT usage in medical space.

Precondition

Attendees should have knowledge of the biological system for better understanding.

Contents

- Embedded IoT Introduction
- World Health Organization Codes for diseases (ICD10)
 - # 70000+ codes assigned for various diseases
- Application Areas of IoT in Healthcare
 - # IoT for the healthcare industry
 - # Patient Monitoring system
 - # AI-based personalized learning and patient guidance
- Embedded Devices
 - # Fitbit / wrist watches
 - # Wearable products
 - # Real-Time Operating System for wearable devices
 - # Battery power management
- Sensors
 - # Blood Pressure
 - # Body Temperature
 - # Biofeedback sensors
 - # Heart (EKG)
 - # Brain (EEG)
 - # Posture (Gyroscope)
 - # Muscles (sEMG)
 - # Respiration / Movement (Accelerometer)
- Emotional Sense Insight
 - # Sensing Tension
 - # Thoughts leading to anxiety and depression
 - # Getting better-oriented training
- Stress Management Parameters

- Embedded Protocols
 - # UART
 - # I2C
 - # SPI
- Wireless Technologies
 - # NFC
 - # BLE
 - # Wi-Fi
- Server-side Software
 - # Web services for REST-like protocols
 - # Learning agents for patient guidance
 - # Database
- User Interactions
 - # Web Applications
 - # Mobile Applications

Booking

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