CASE STUDY

MEDICAL GRADE WEARABLE DEVICE

www.tataelxsi.com
CLASS C MEDICAL GRADE WEARABLE DEVICE
IoT device compliant to FDA Class – II, IEC 60601-1 (FUSA) , IEC 62304 (Class C), UL 2900 (Cyber Security)

SCOPE
• Industrial design of elegant wearable device
• Board design, sensor integration
• Application development, and AWS cloud integration

CHALLENGES
• Medical measurements with calibration and medical safety support
• Complete skin moisture measurement - Analog front end design & SW algorithm development
• Document artifacts as per IEC 62304, UL 2900

TOOLS AND TECHNOLOGIES
• BLE 4.1, Smart AFE, Android
• Rectify requirement management tool
• E2studio IDE, coredova hybrid mobile app IDE
• LDRA test tool (complete package)

MARKET | BUSINESS BENEFIT | DELIVERY MODEL
---|---|---
Wearable (Medical) | Industry Compliance & Reduced Product Development Cycle | Fixed Bid