FEDEVEL

CERTIFICATION

This is to certify that

Javier Calvo Rey

has successfully completed the course

Essential PCB design/layout techniques for good EMC

Date **22 JUL 2026**

Course tutor *Keith Armstrong*

Keith Armstrong

Course duration: 5h 25min **Course content:** Saving time and money, Scope and application of these design techniques, EM Zoning (i.e. segregation), Interface analysis, filtering, and suppression), Planes for 0V(GND) and other power rails (PWR), RF-bonding PCB Reference Planes at EMZ boundaries, Power supply decoupling, Switching power converters (AC/DC, DC/DC, DC/AC, etc.), Matched transmission line techniques, Layer stacking and trace routing, Devices with BGA packages and/or multiple DC rails, Some useful references, sources, and webinars

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Certificate number: 1a77884c6933151b690a3d360