

# CERTIFICATION

This is to certify that

Eric Marín Martín

has successfully completed  
FEDEVEL ACADEMY course

Advanced PCB Layout

Date: 16 FEB 2023

Course tutor:

Robert Ferranez



**Course duration:** 14h 55min

**Software used:** Altium Designer

**Course content:** 1) Placement 2) Basic Rules & Basic Stackup, Fanout under CPU, DDR3 preliminary layout 3) Board fanout, Planning Layout, Crosstalk, Impedances & Stackup 4) High Speed Design Rules & Routing, Layer ordering 5) Number of layers, Layout 6) Length matching, About memory routing, Polygons & Power Planes 7) Checking PCB, Length tuning, Finishing PCB, Generating & Checking gerber files

Certificate number: 1c657a67002c7a1f0760878f9