FEDEVEL EDUCATION

CERTIFICATION

This is to certify that

Ricardo Alexandre Fernandes Marques

has successfully completed
PHIL'S LAB course

Mixed-Signal Hardware Design with KiCad

Date: **13 AUG 2022**

Course tutor: Philip Salmony

PHIL'S LAB

Course duration: 5h 20min
Software used: KiCad V6
Course content: 1) System-Level Design 2) Part Selection 3) Understanding Datasheets 3) Power Supply Design 4) MCU and USB Circuitry 5) ADCs, DACs, and Analogue Circuitry 6) Symbol and Footprint Creation 7) Circuit Simulation with LTSpice 8) PCB Design, Layout, and Routing 9) Product Manufacturing

Certificate number: 136c557d57307c3507980e208