

CERTIFICATION

This is to certify that

Chi Young Shin

has successfully completed
PHIL'S LAB course

Mixed-Signal Hardware Design with KiCad

Date: 30 JAN 2024

Course tutor:

Philip Salmon



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: 137c055d37003c4577288e509