

# CERTIFICATION

This is to certify that

**Victor Lam**

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has successfully completed  
PHIL'S LAB course

**Mixed-Signal Hardware Design with KiCad**

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Date: **5 JUL 2023**

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Course tutor:

*Philip Salvendy*

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**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: 136c856d17709c9577787e808