

Phys 476: Modern Electronics for Physicists

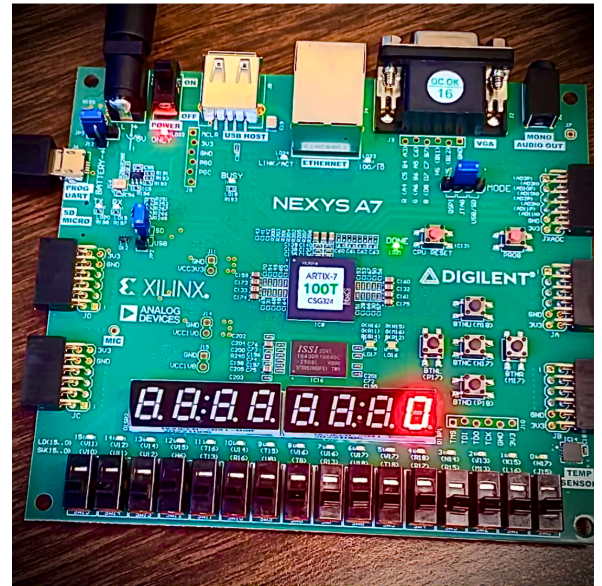
Spring semester 2025

Instructor

- **Name:** Prof. Keisuke Yoshihara
- **Email:** kyoshiha@hawaii.edu

Class Information

- **Classroom/Lab:** WAT415
- **Class Hours:**
 - **Tuesday:** 1:30 PM – 4:50 PM
[Lecture + Lab]
 - **Thursday:** 1:30 PM – 3:20 PM
[Lecture]



FPGA Board

Course Goals

This course is designed for beginners who want to explore Digital Circuit Design and gain essential skills in:

- HDL-based FPGA Programming
- ML/AI Development with Python
- Implementing ML/AI on FPGAs with High-Level Synthesis (HLS) tools to deploy ML/AI models on FPGAs.
- **Applications in Particle Physics Experiments**



Syllabus