

FACULTY MENTOR

Yuhwa Lo

PROJECT TITLE

Semiconductor Photodetectors for LiDAR and AR/VR

PROJECT DESCRIPTION

Description: Will be involved in device design, fabrication, and characterization of single photon detectors for LiDAR systems to support autonomous driving and robotic vision and AR/VR applications.

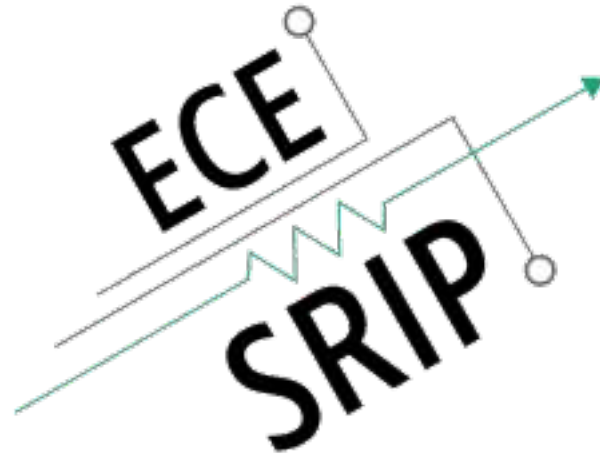
This project can accommodate both remote and in-person students.

INTERNS NEEDED

2 Students

PREREQUISITES

1. ECE230A or knowledge in semiconductor device physics



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PROJECT TITLE

Biophotonic Machine Learning System for Biomedicine

PROJECT DESCRIPTION

Description: Will develop optical detection systems with AI capabilities to support biomedical applications including viral detection, drug discovery, cell analyses.

This project can accommodate both remote and in-person students.

INTERNS NEEDED

2 Students

PREREQUISITES

1. Some optics background (e.g. ECE240 series)