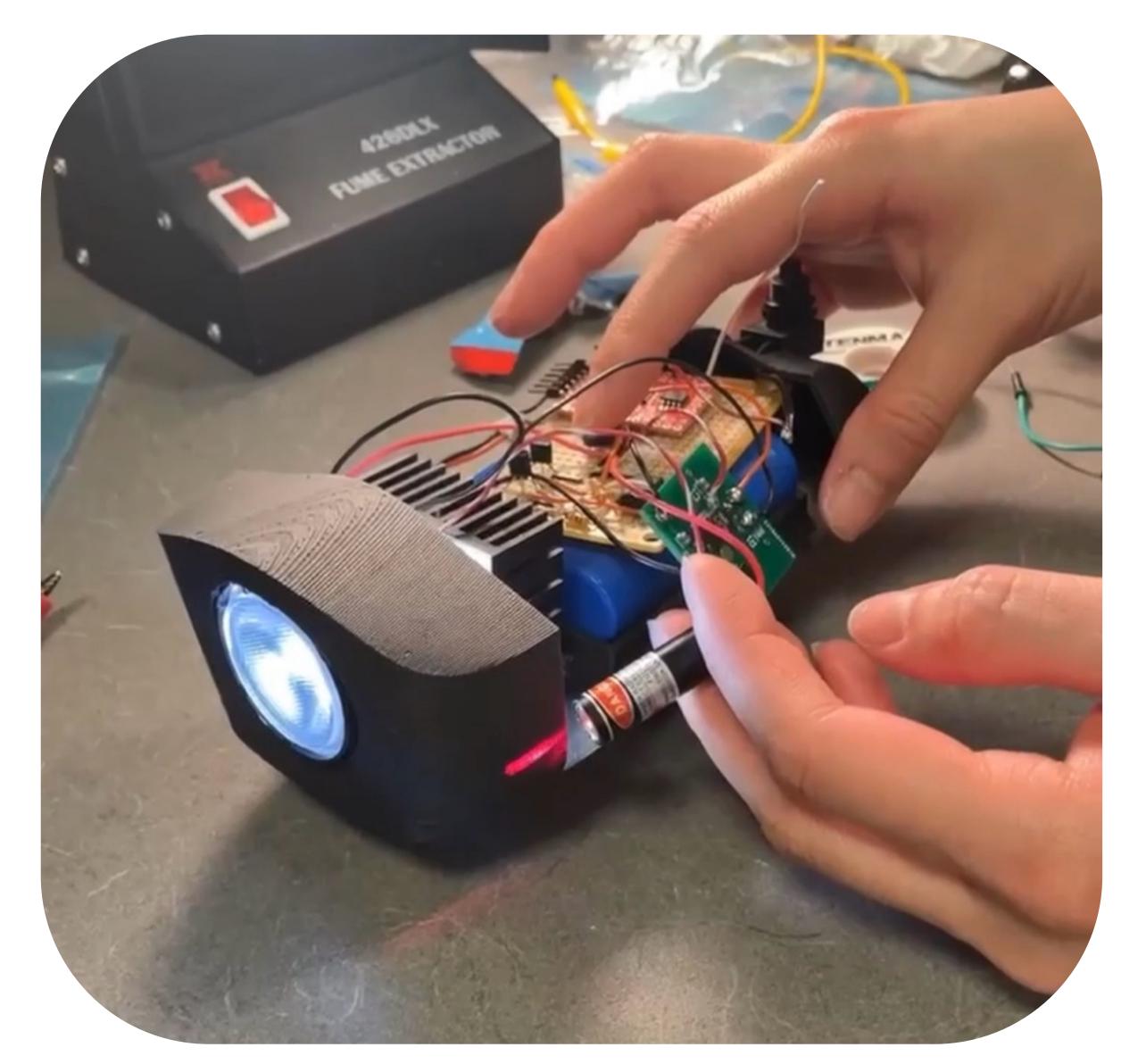


# Bike Safety

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### Why

Bicyclists do not always feel seen or safe near motorists. A safety optimized bike lighting system addresses visibility issues and ensures a better commute.



Assembled headlight module and front of bike laser projection in its first assembly.

#### Goals

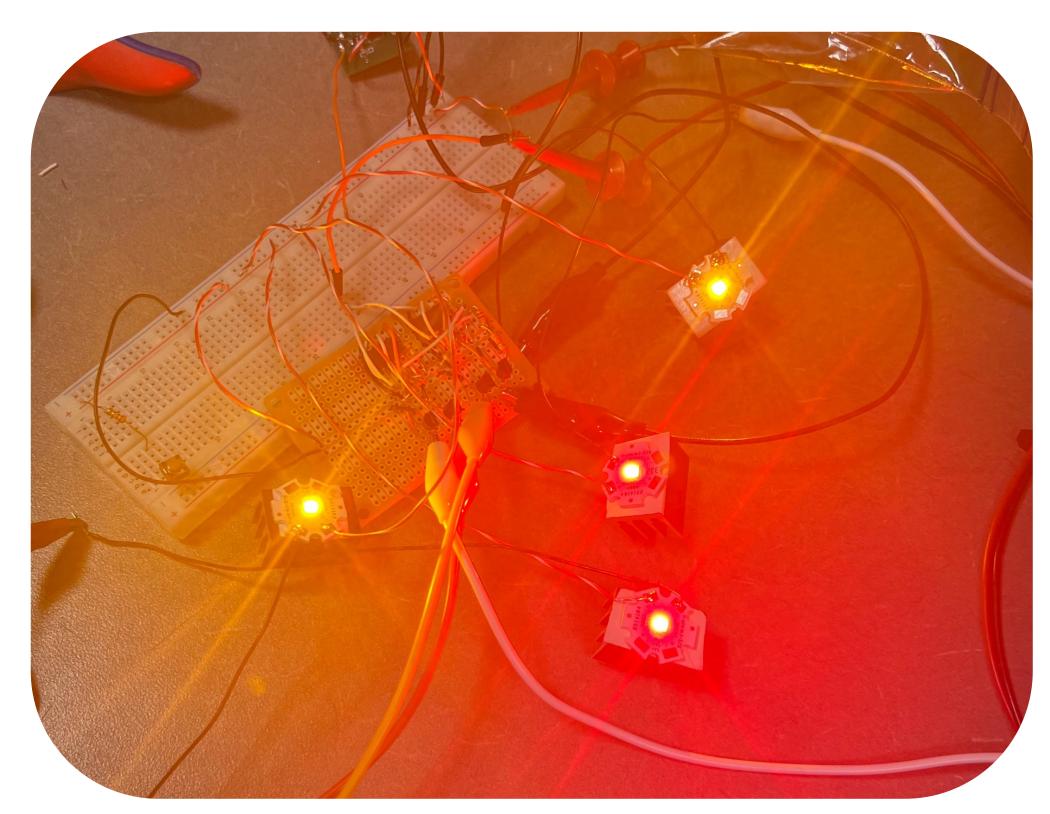
- Headlight
- Taillight with Turn Indicators
- Blindspot Detection
- Projected Laser Lines
- Wireless Communication

## Challenges

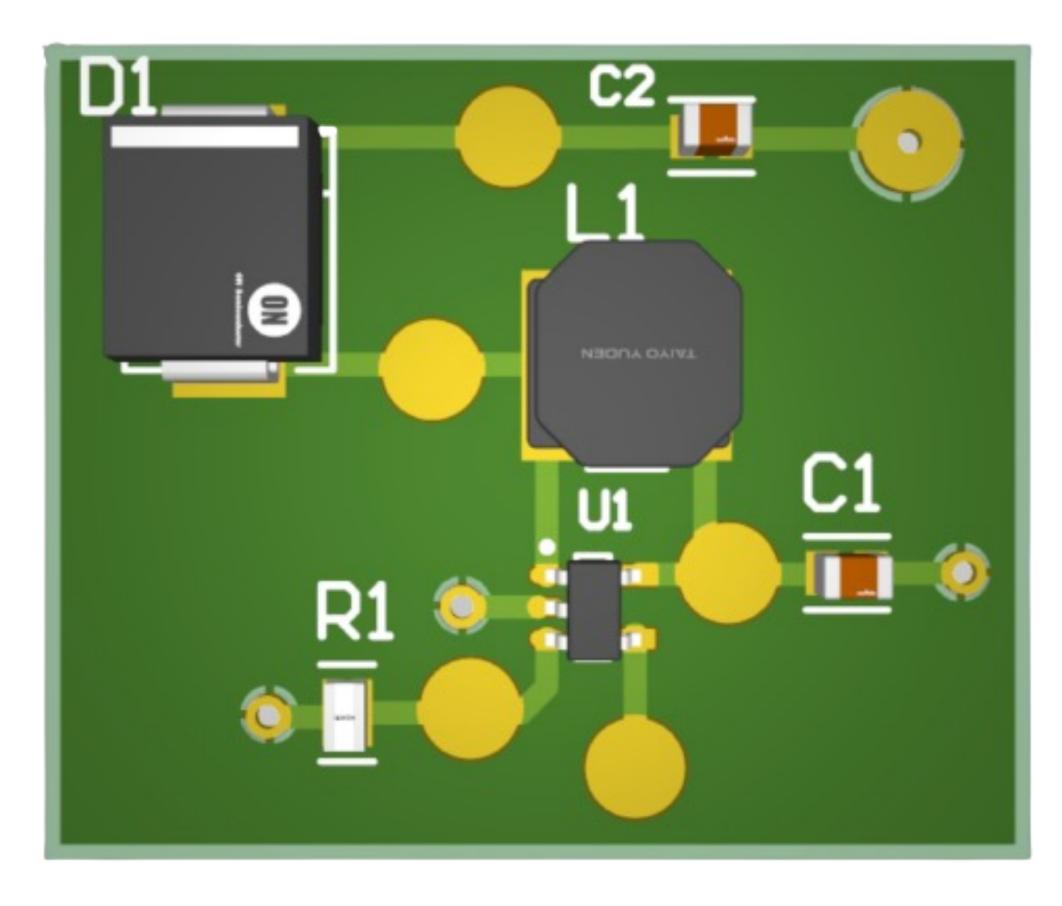
- Power Capabilities
- Limited Testing Timeline
- LiDAR Sensor Limitations
- Learning New Skills on the Fly

#### **Future Directions**

- > Improved LiDAR sensor
- Smaller Battery Setup
- Incorporation of Human Factors Research



Protoboard circuit setup to test the taillights (amber) and turn indicators (red).



PCB layout to control the headlight operations.