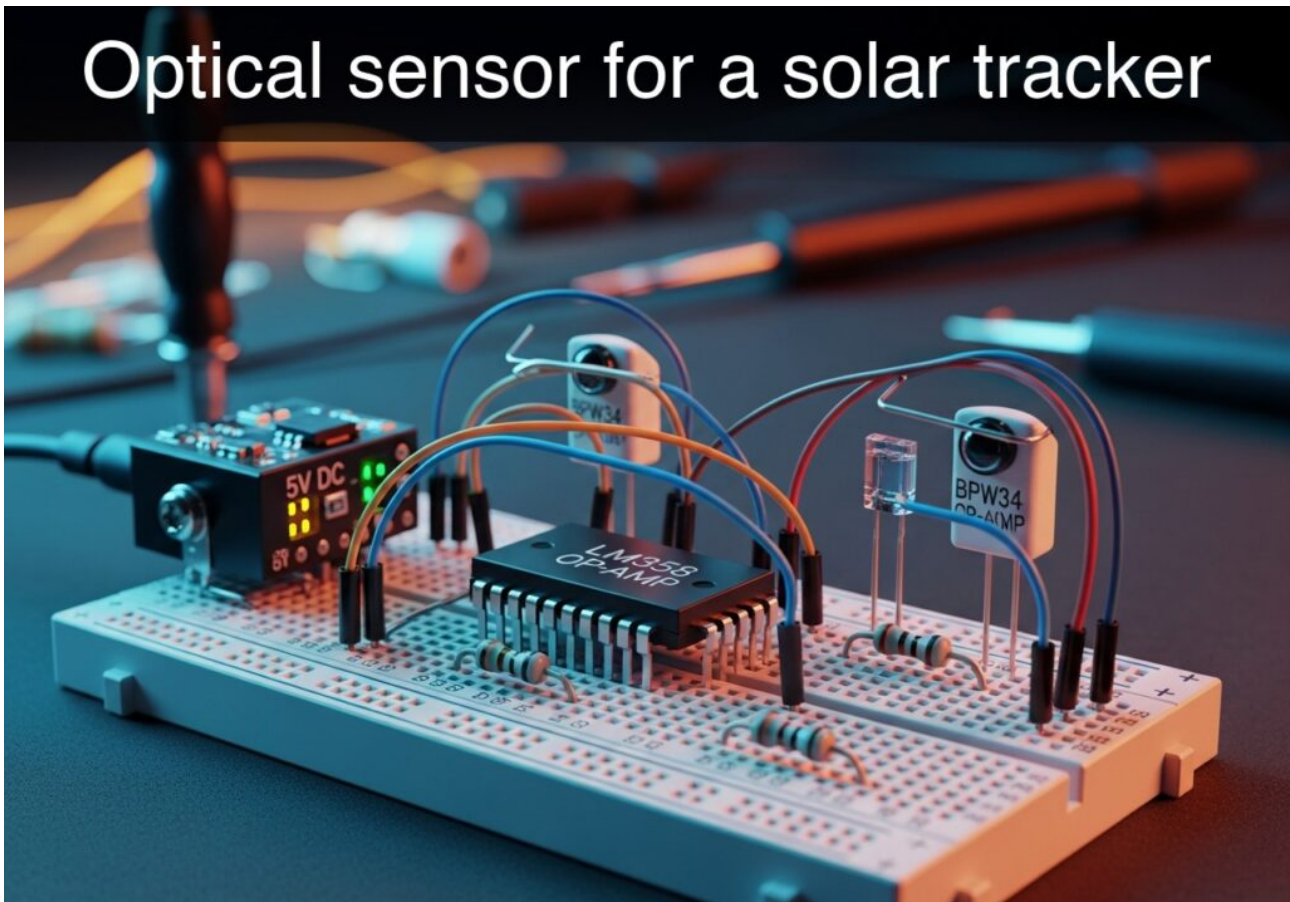


## Practical case: Optical sensor for a solar tracker



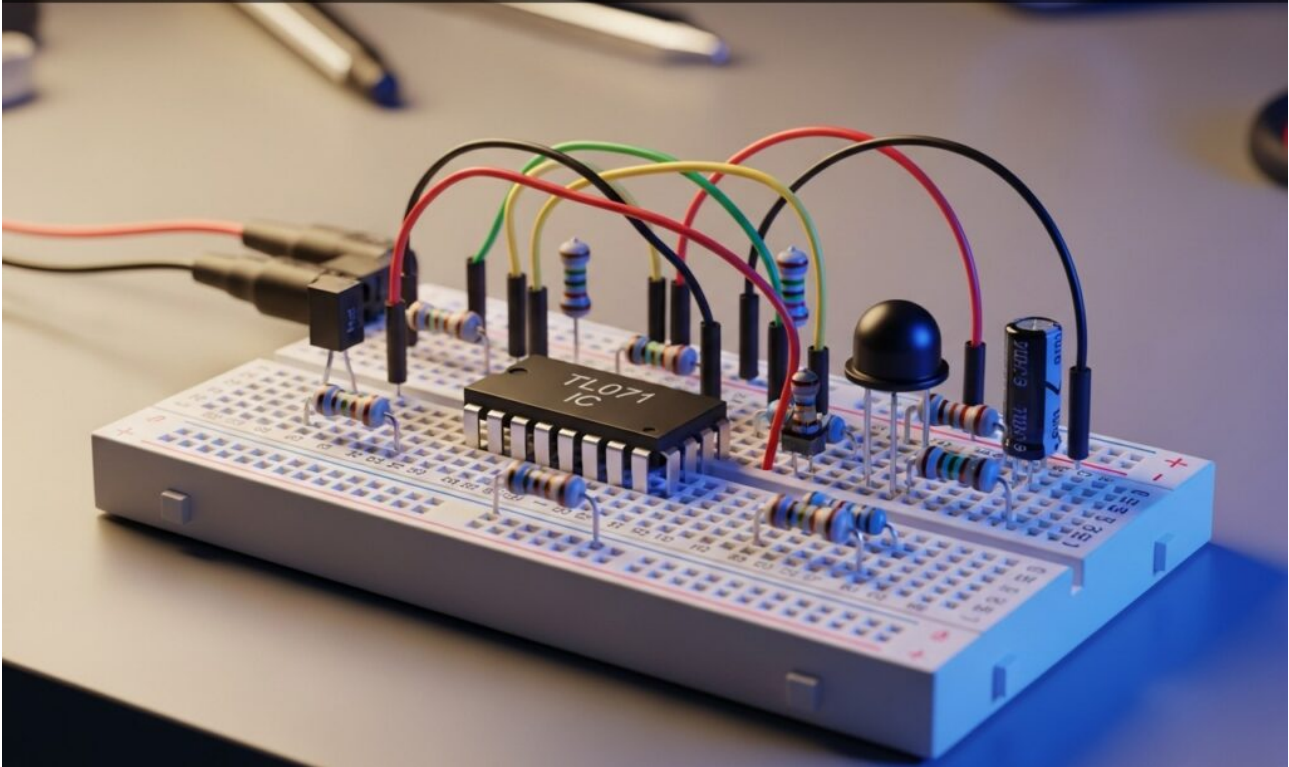
Level: Medium - Design a circuit with two photodiodes in a differential configuration to detect the direction of the highest intensity light source.

##...

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## Practical case: Transimpedance amplifier

# Transimpedance amplifier



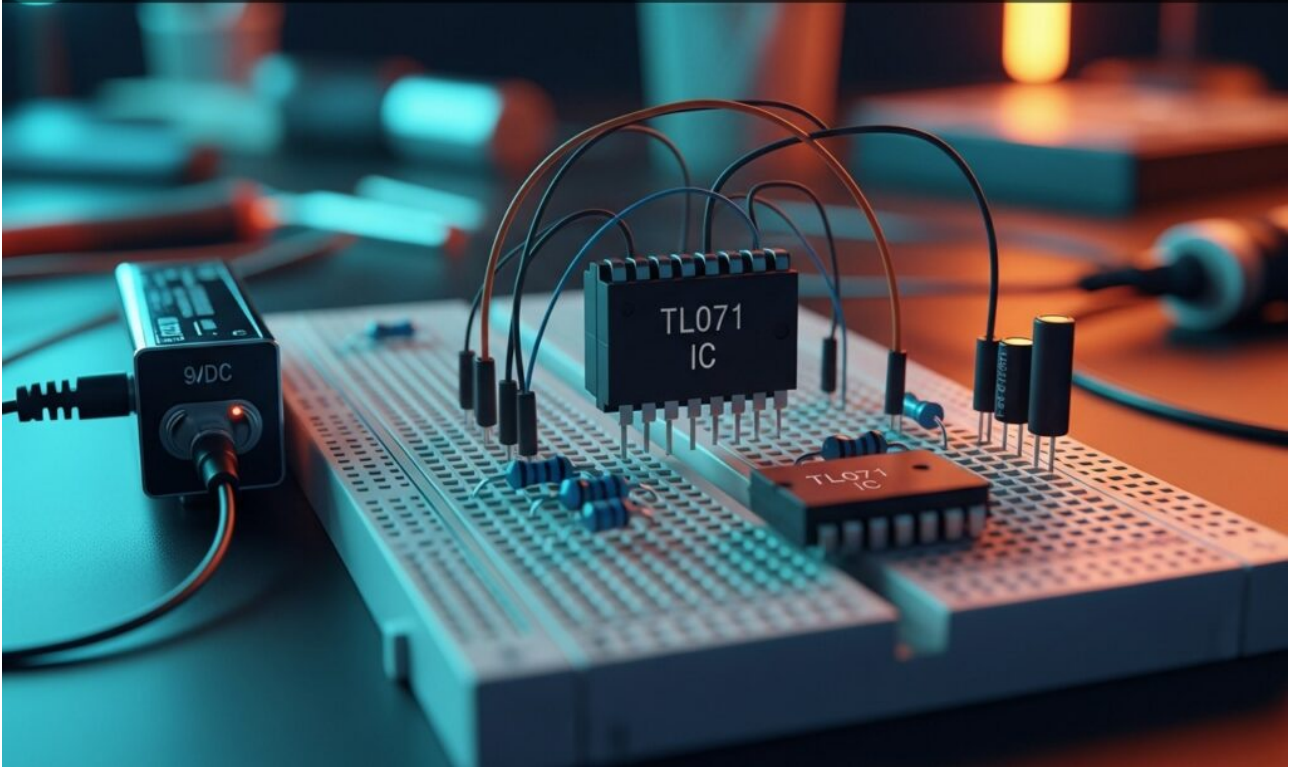
Level: Medium - Design an OPAMP transimpedance amplifier to convert the small photodiode current into a measurable voltage.

## Objective and use case  
You...

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**Practical case: Modulated light audio receiver**

# Modulated light audio receiver

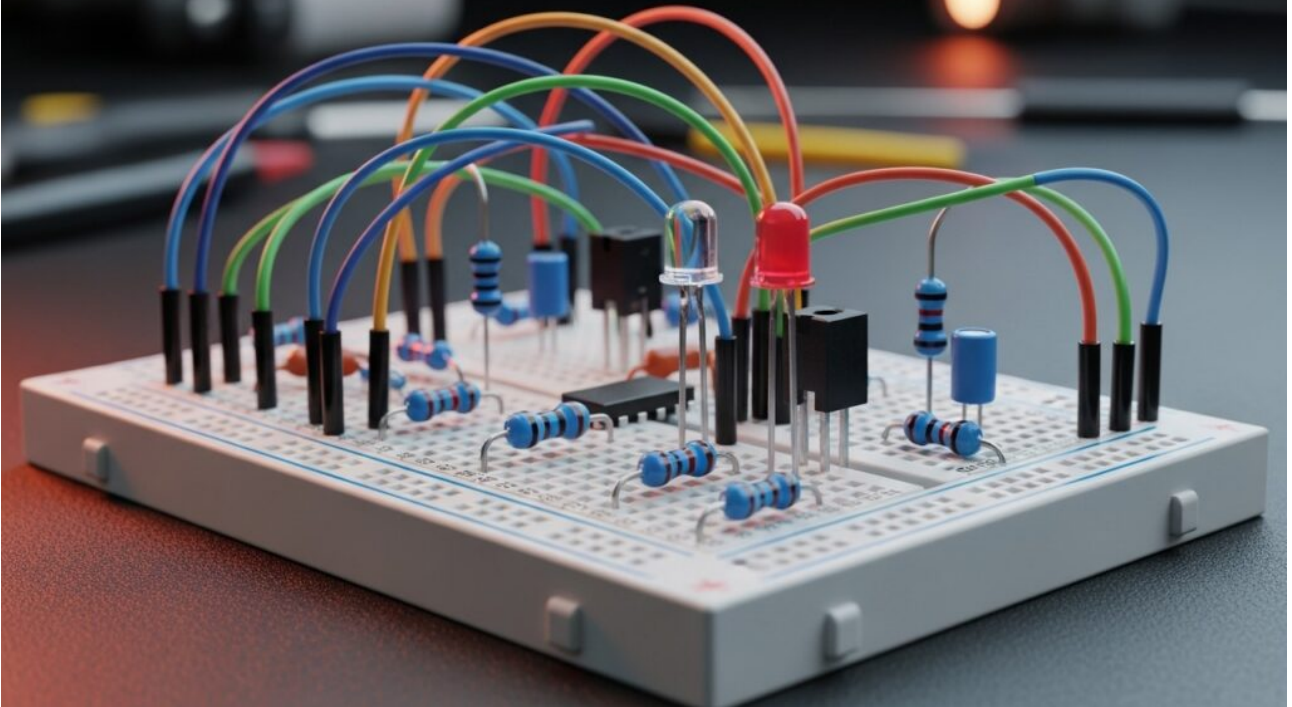


Master Analog Electronics by building an optical audio receiver. Use a Photodiode and TIA to demodulate light beams into clear, isolated audio signals.

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**Practical case: Optical tachometer for DC motor**

# Optical tachometer for DC motor



Master Analog Electronics by building a non-contact RPM sensor. Use a Photodiode to detect rotation and generate clean digital pulses for motor speed control.