# Calf Tracking

## General Concept Ideas

### Visual System

- An AI evaluates a camera image and gives out if the calf is laying or standing
- Option 1: trying to fit a skeleton model and evaluate that
- Option 2: Train an AI to differentiate just laying and standing → TinyML + LoRaWAN ("cheap and low power")

### ToF System

- Just use a Time of Flight sensor to measure the distance between the calf and the top of the ceiling

## Additional Sensors

- Low-resolution thermal camera
  - Measure the temperature of the calf and of the ground
- Air temperature and humidity tracking
- Straw/Litter tracking (temperature and humidity)
- Water tracking

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