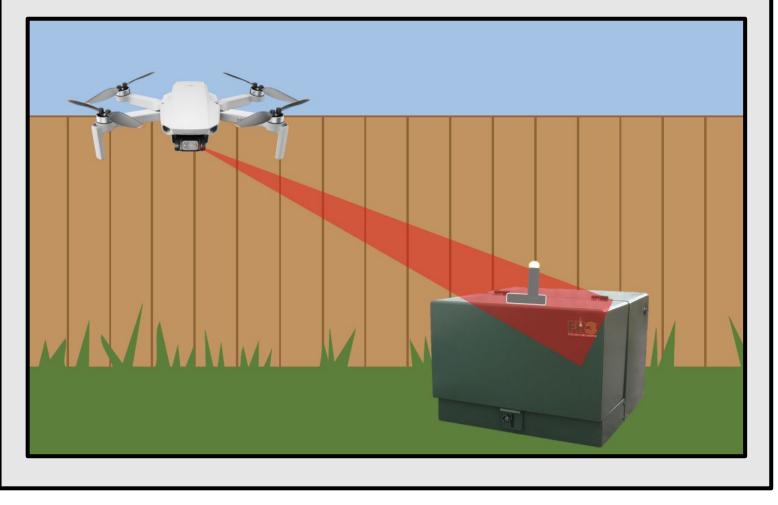


## Background

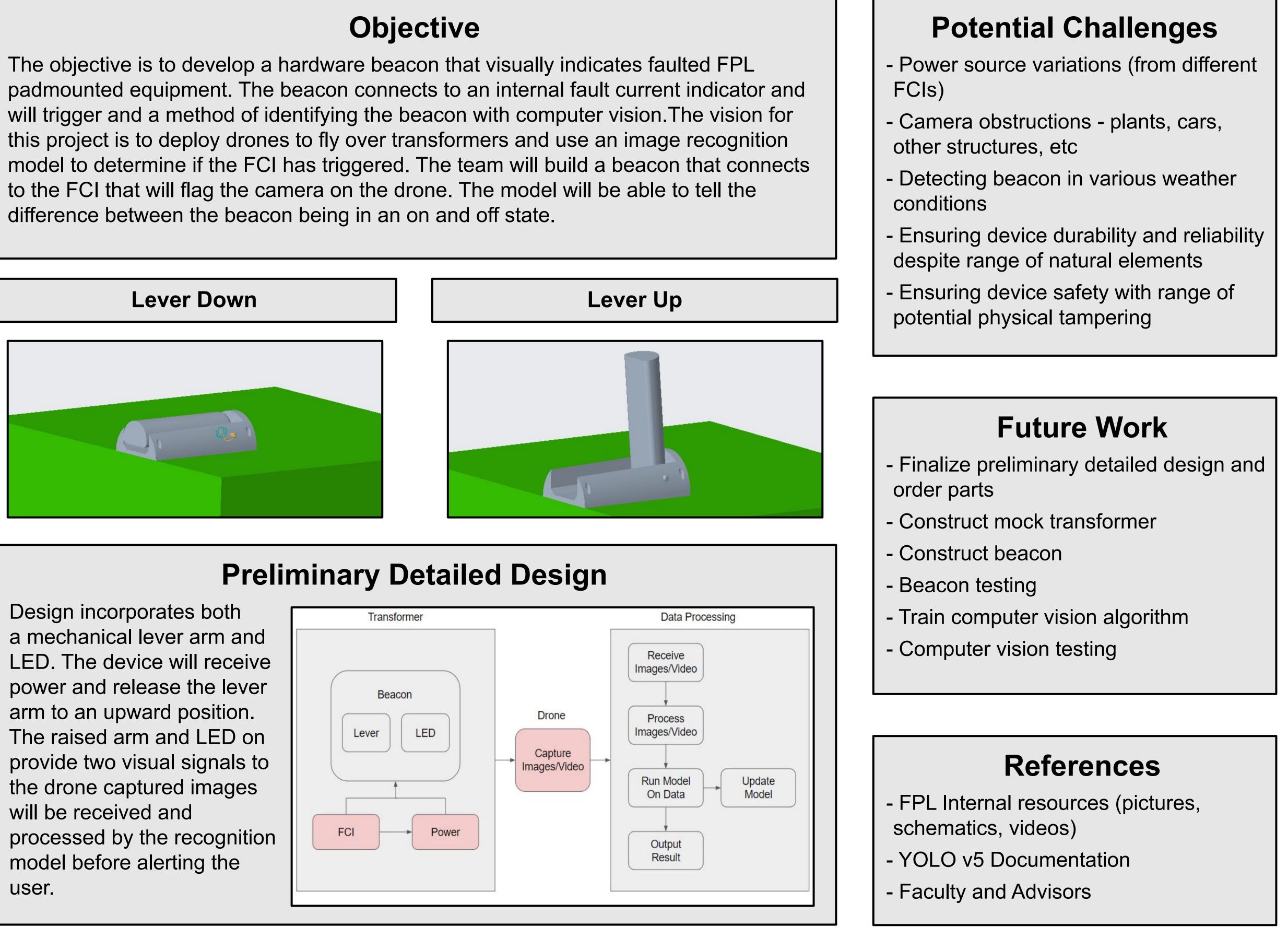
Padmounted transformers have internal fault current indicators (FCI) that turn an LED on when a fault has occurred. This design will create a visual beacon powerd by existing FCIs, to be captured by drone footage and processed through an image recognition system. The recognition model will detect the transformers, beacon, and whether the beacon is on or off to locate faulted transformers.



## Targets

Model Confidence 80% Beacon Cost < \$100 Visible up to 50 ft Installation Time < 1hr Beacon Lifespan 30-50 years Model Runtime 45 fps (frames per second)

The objective is to develop a hardware beacon that visually indicates faulted FPL



# Team 304: Image Recognition for Padmounted Equipment

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