

FAMU-FSU
College of Engineering

ROBOTIC POLE INSPECTION COLLAR

Team 505 - Southern Pine

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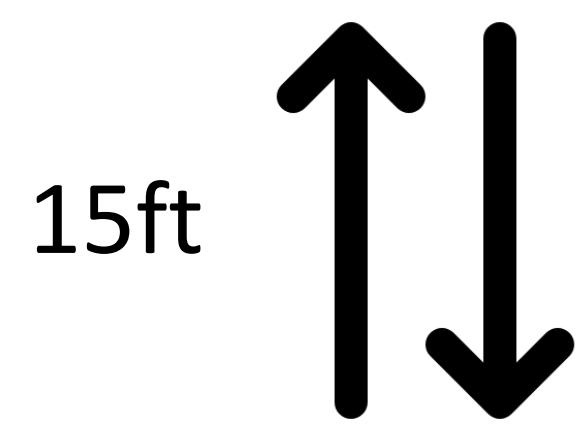
Motivation

A linemen was injured when they climbed a power pole and it cracked due to rot



Objective

Design a mechanism that can check the structural integrity of a wooden power pole



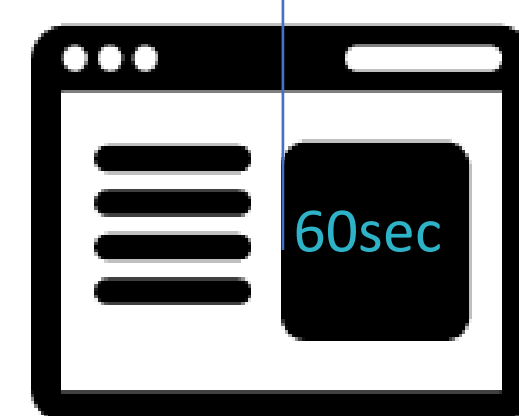
15ft
Ascend/descend
wooden
utility pole

8in



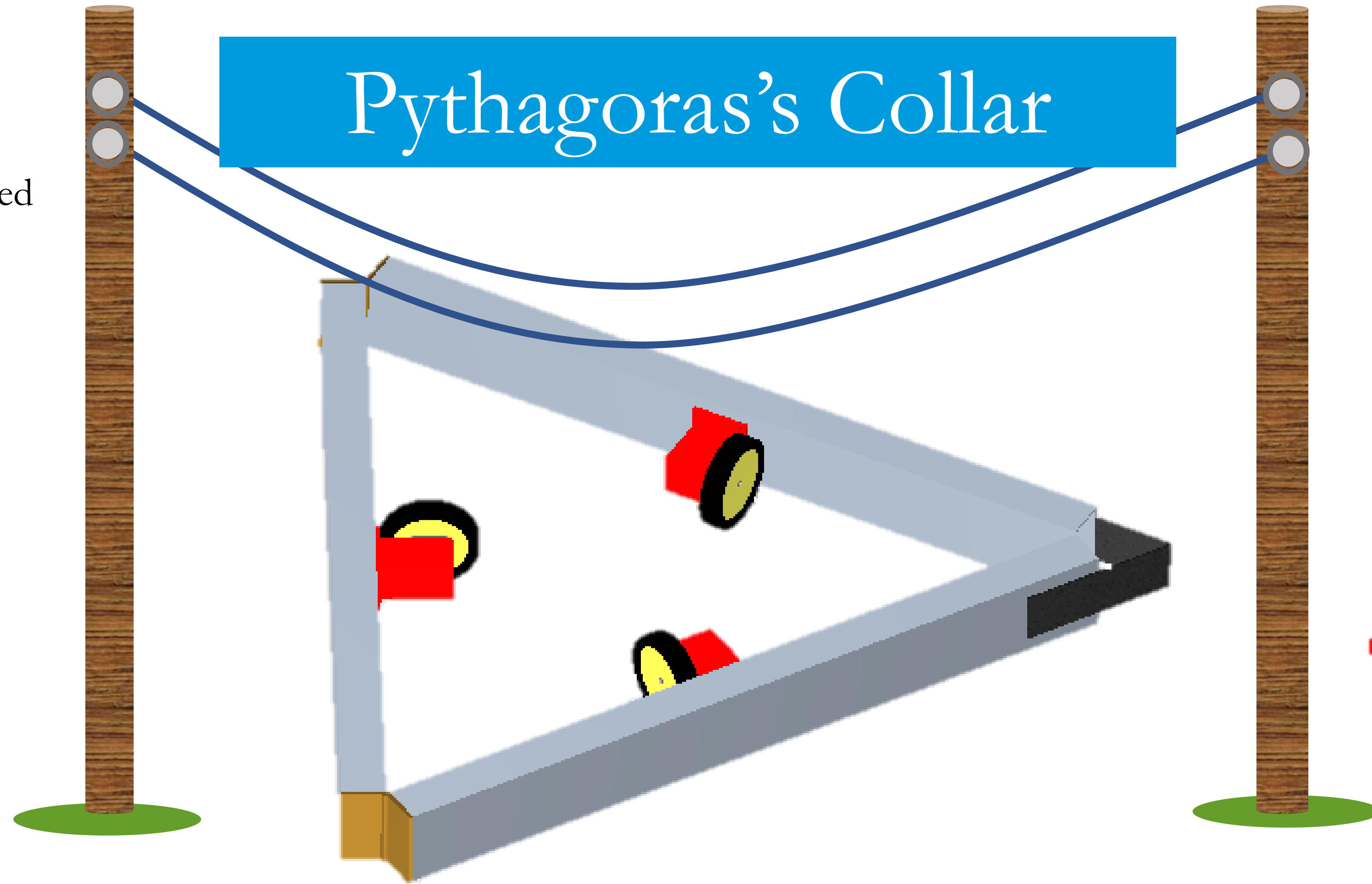
Detect rot
within pole

16s

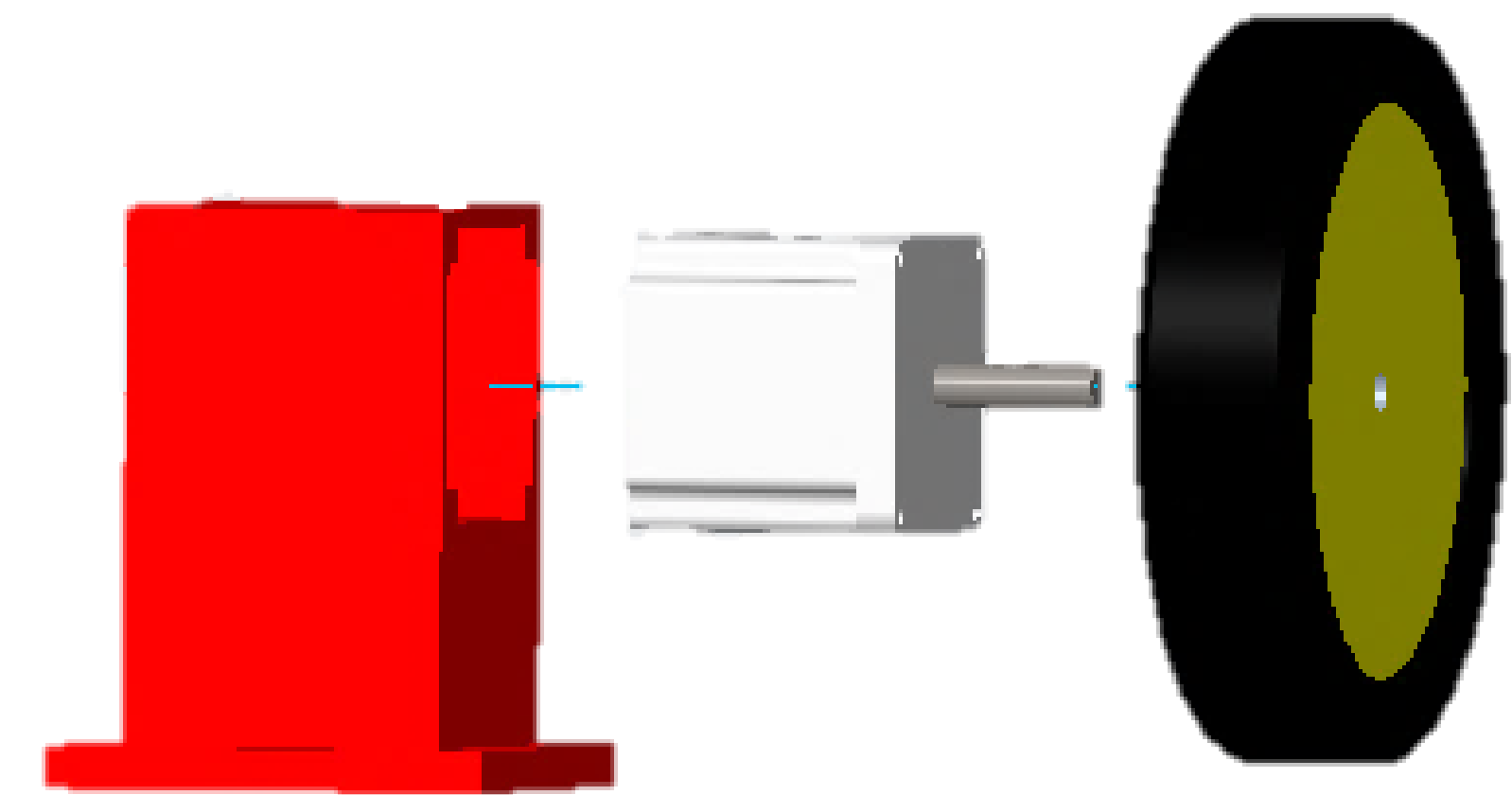


Interface readings
to linemen

Pythagoras's Collar



Drivetrain



Detection

