

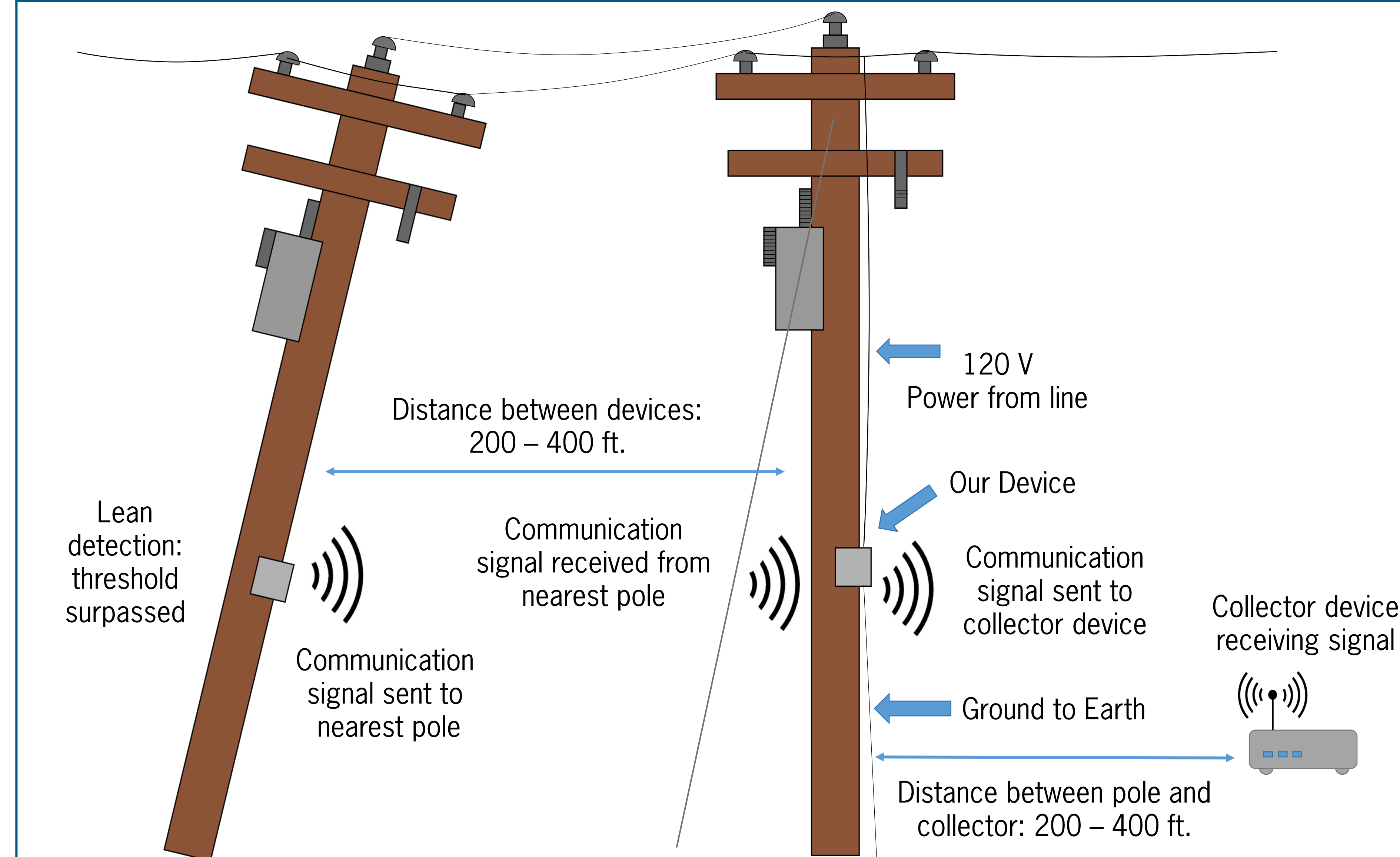
Problem Statement

Design and build a low cost tilt sensor to detect the leaning angle of a utility pole and the time it occurred.

Product Requirements

- Detect angle to nearest degree
- Angle metrics transmission distance of 200 – 400 ft.
- 900 MHz Wireless Network
- Withstand harsh weather conditions
- “Last gasp” capacitor
- Run off of 120V power supply from line

System Overview



Our Device



Milestones

- SQL Database for collector
- User friendly GUI to set lean angle
- 900 MHz Mesh Network
- Data hopping
- “Last gasp” circuit
- Emergency Mode

System Architecture

