
Stop Noise Pollution from Honking

DD15

Project Objectives

- Count the number of times a driver uses the horn of the car
- Transmit this data to a server
- Give a signal if the device is tampered with

Project Deliverable

- Distinguish between different horns based on frequency as well as the distance
- Provision of an initial calibration of frequency

Work done till now

- Frequency block via 2 methods
 - Frequency comparator SN74123
 - Frequency to voltage conversion
- Readied the PCBs for
 - Microphone Amplifier
 - Audio Detector
- Programmed the μ C for
 - frequency measurement needed for calibration
 - Duty cycle and voltage comparison for the frequency block
- Constructed butterworth highpass with a cutoff frequency of 400Hz