TEAM 6
WIRELESS BLUETOOTH RECEIVER AUDIO ADAPTER

AmazonBasics Bluetooth 4.0 Audio Receiver
Product Description: Wireless Bluetooth Receiver Audio Adapter

- Compact and lightweight build to easily tuck away and take on your travel
- Enables traditional speakers with Bluetooth for wireless audio streaming from a range of 33 feet.
- Allows for standard 3.5mm headphones to be interfaced with Bluetooth enabled devices.
- Provides wireless interface to home theaters, stereo systems, and car stereos.
- Intended Market Geography will be the USA.
Key Requirements

- **Cost**
  - Sales Price: $40, Component Cost: $25, Assembly & Test Costs: $2.50

- **Environment**
  - Indoor, Outdoor (Dry)
  - Operating Temp Range: -25 to 45 °C
  - Operating Humidity Range: 0 to 100%

- **Power Input**
  - Regulated USB DC Power: 4.75 to 5.25V @ 2.1Amps Max
  - Rechargeable battery: 1 Li-ion, 3.7V, 400mA

- **Major Functions**
  - Streaming range: Minimum of 10 meters
  - Operation time: Minimum of 6 hours of streaming
  - Audio Quality:
    - 24 Bit resolution, High SNR and Dynamic Range at least 90dB for each.
  - Human hearing frequency response
    - Range of 20Hz to 20kHz