

Robot Guide Dog

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Guide Dog

- First introduced in Germany
- Bring to the US in 1927
- 4-6 months of training

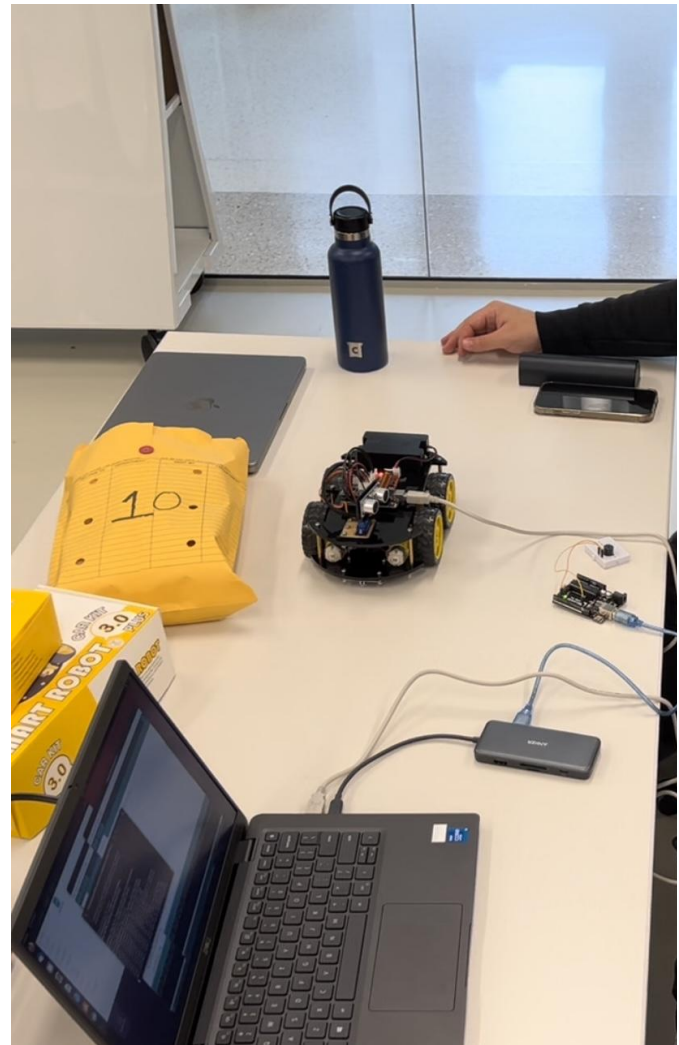
Our Robot Guide Dog



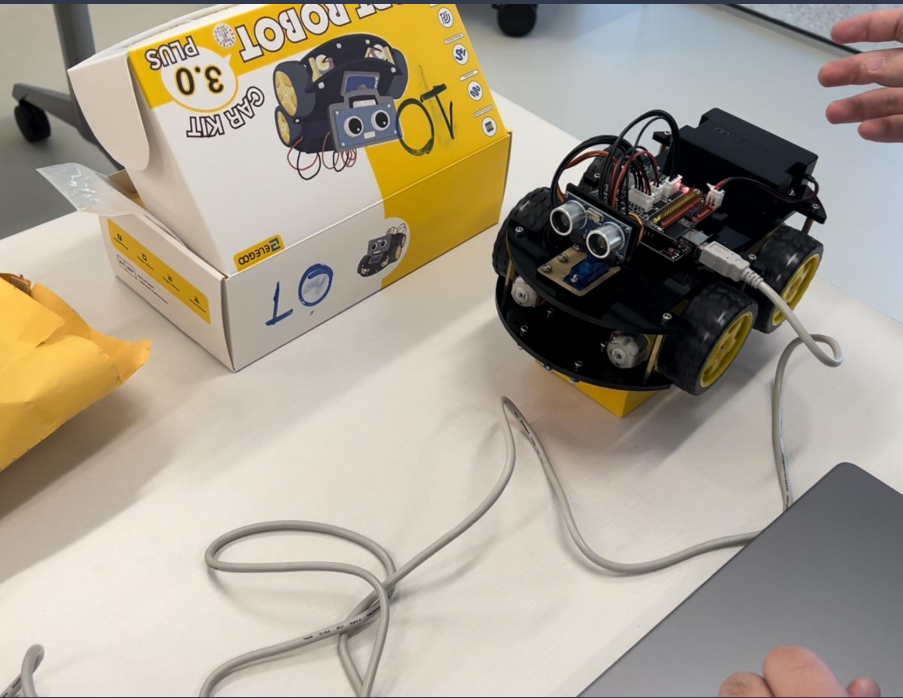
Computer



Our Robot Guide Dog

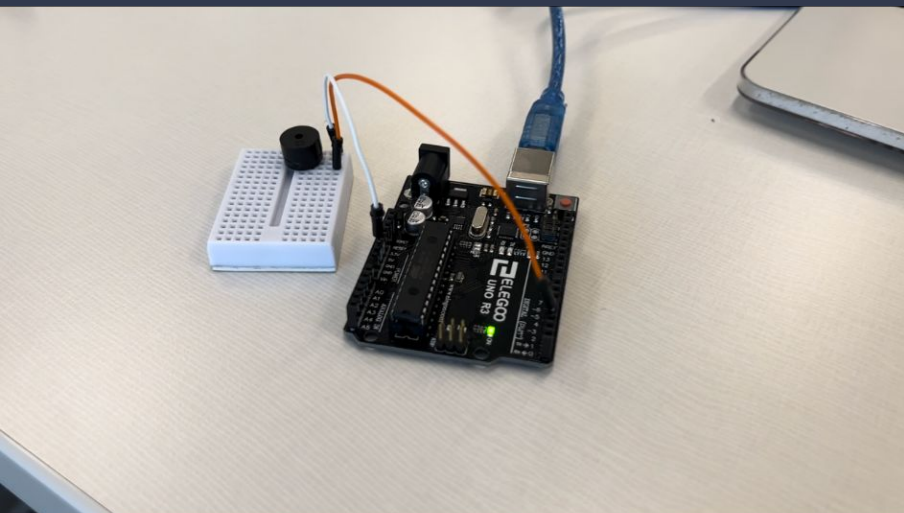


Publisher



- Obstacle avoidance
 - servo
 - getdistance()
 - chassisMove()
- Delays
- 'int_msg'
 - code 0: front
 - code 1: left
 - code 2: right
 - code 3*: nothing

Subscriber



- Subscriber Callback
 - `tone()`
 - `notone()`
- `'int_msg'`
 - code 0: Note C5
 - code 1: Note A6
 - code 2: Note D6
 - code 3*: Note G5

Improvements

- Replace notes with recorded voice to provide better instructions
- Replace ultrasonic sensor with camera to get better obstacle detection
- Voice Control
 - voice recall