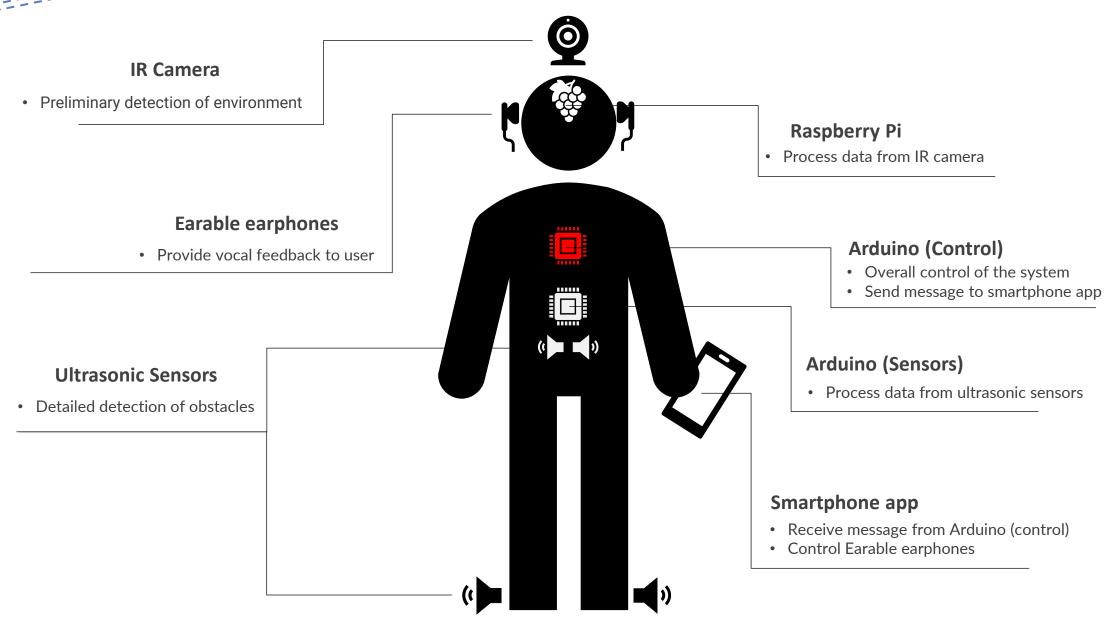
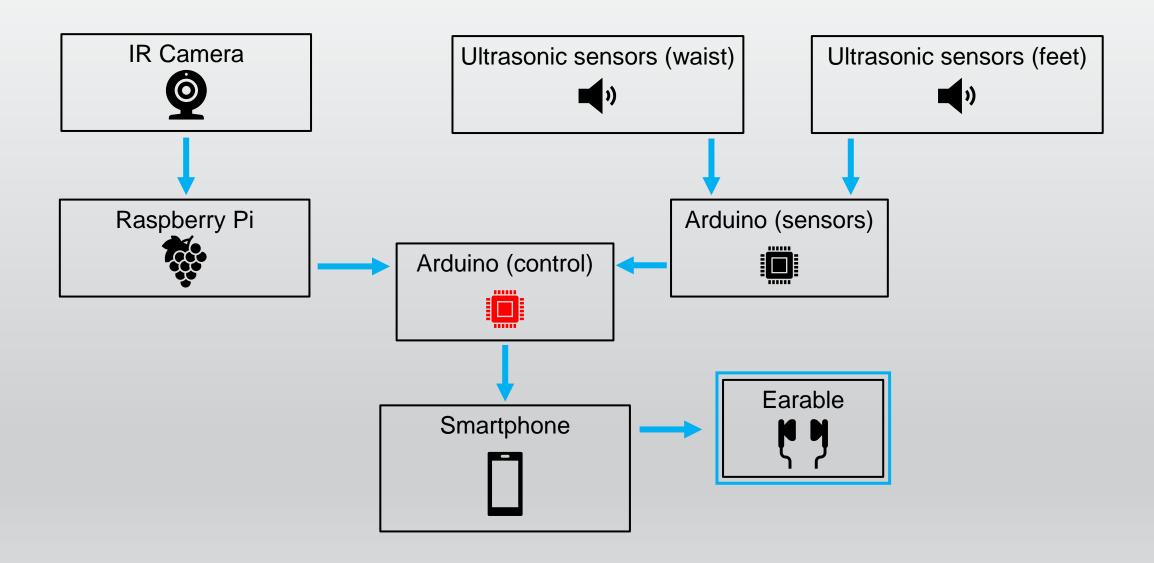
18 Nov 2021 Ruoye Wang & Jinchen Wu present: Palantir2021 Obstacle avoidance system for the visually impaired

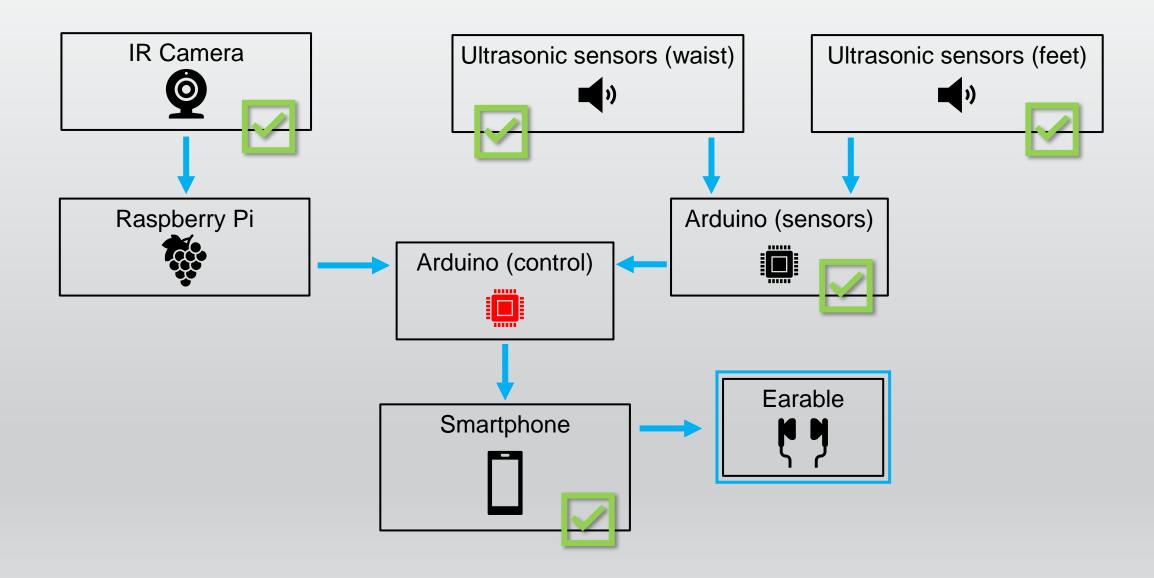
Overall Project Goals and Specific Aims



Technical Approach



Current Status



Devices



Raspberry Pi

- Establish a stable operating environment
- Fast recognition of IR camera graphs



Arduino (control)

- Overall control of RBPi and Arduino (sensors)
- Process data and send message to smartphone



Earable

- Connect to smartphone via BlueTooth
- Produce vocal feedback to user

Connect & Test



CONNECT

• Establish connections between parts



TEST

- Improve connectivity
- Guarantee Robustness



IMPROVE

- Blindfolded tests
- Enhance user experience

