

# Update: A Simple IoT-Style Air-Conditioner for the Elderly

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FALL 2018

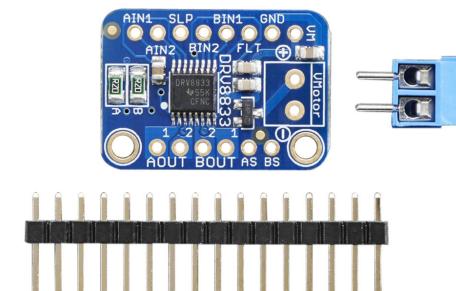
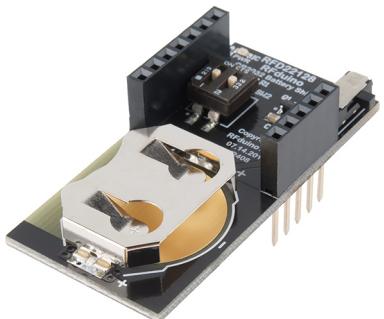
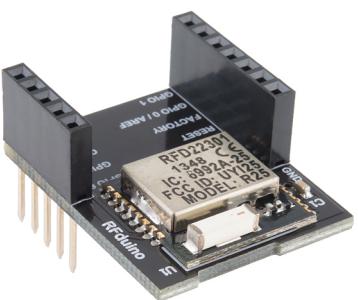
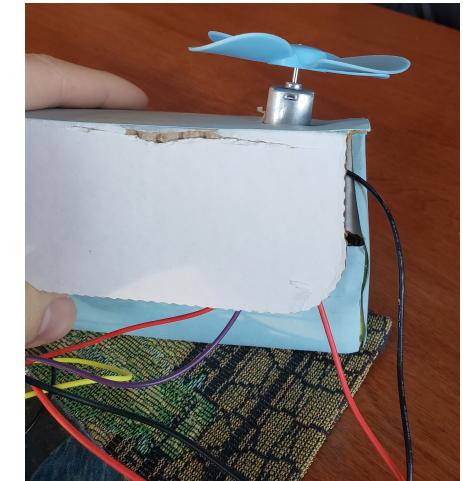
# Improvements

- ▶ Added text-to-speech (MIT App Inventor)
  - ▶ Announces what happens at each button press
  - ▶ App can speak temperature to person
- ▶ Small fan powered by 3V motor
- ▶ User sets “target temperature”, fan turns on and off accordingly



# Hardware

- ▶ Fan is attached to 3V motor
- ▶ Driven by Adafruit motor driver
- ▶ Rfduino interfaces between app and motor, powered by coin battery



# Overall Function

- ▶ User can adjust “Target Temperature”
- ▶ If target temperature is lower than the temperature measured by Rfduino, fan turns on and notifies user
- ▶ Fan turns off and notifies user if either the air temperature decreases to the target temperature or if the user raises the target temperature to the air temperature