

# AUTOMATED PENNY WHISTLE FOR PHYS 232

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## NOT PICTURED:

- 1x Adafruit CircuitPlayground
- 1x Servo power module with capacitor
- 1x DC power supply
- 4x worried physics students

3x party balloons:

- Work as capacitor to even out pulses from compressor
- Small holes: pressure relief & leak for constant pressure

Air compressor (pump)  
Always on, electrically powered

Super Fancy Manifold

Clear pneumatic line  
Press fit on both ends

Closed finger  
Surgical tubing seals hole

Surgical tubing (rubber hose)  
Press fit on both ends

Air cutoff servo  
Squishes tubing to control airflow

Surgical tubing pulled over mouthpiece

Pennywhistle snaps into mounting  
clamps

6x exchangeable finger modules  
3x left, 3x right versions  
Close or open individual holes

Open finger

DETAIL A

