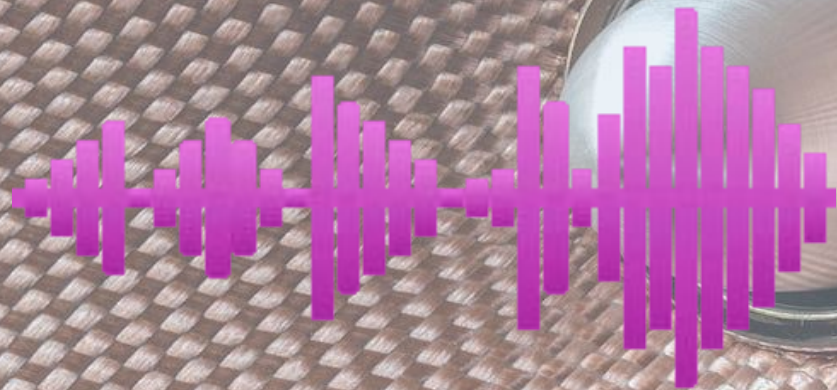


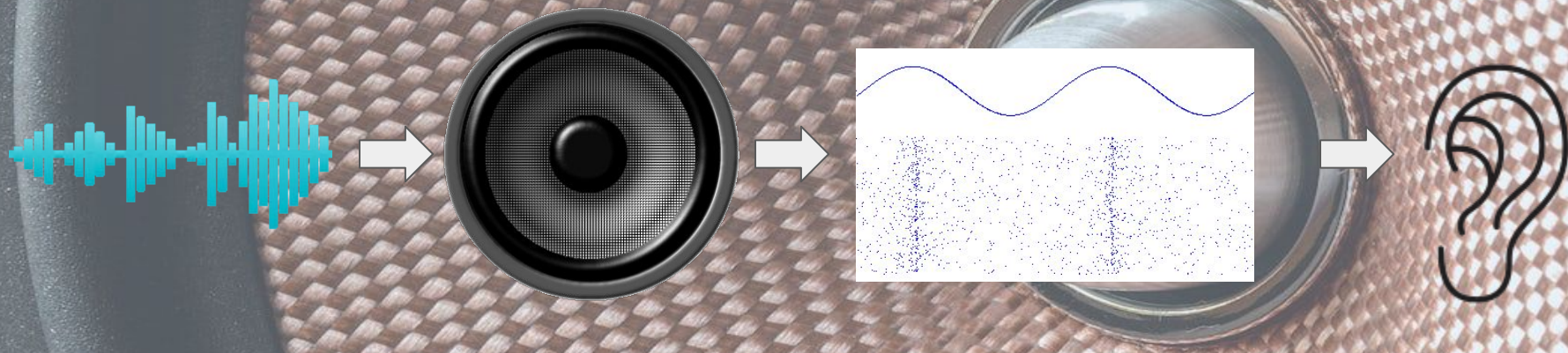


Presented by IEEE@UCF

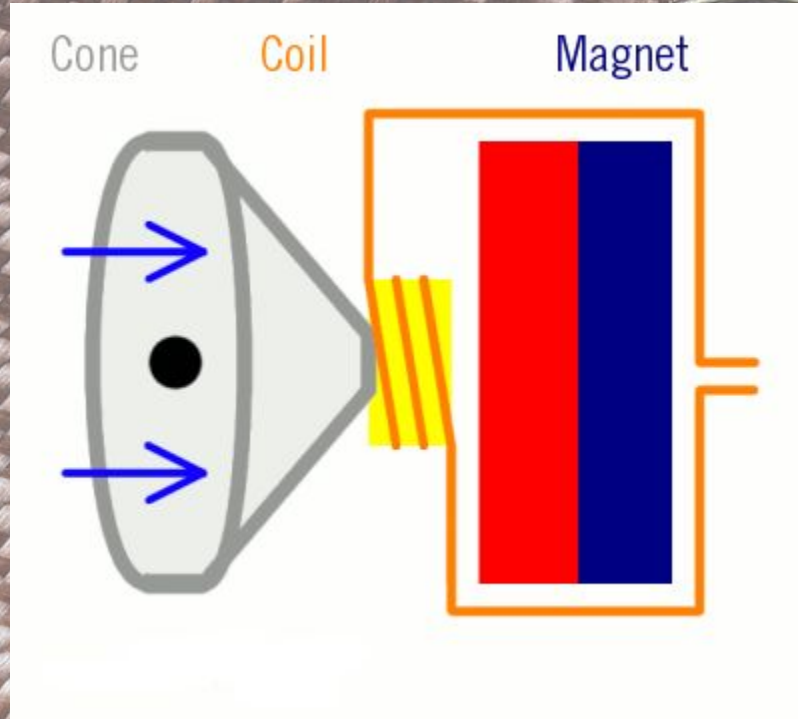
What is sound?



What is a speaker ?

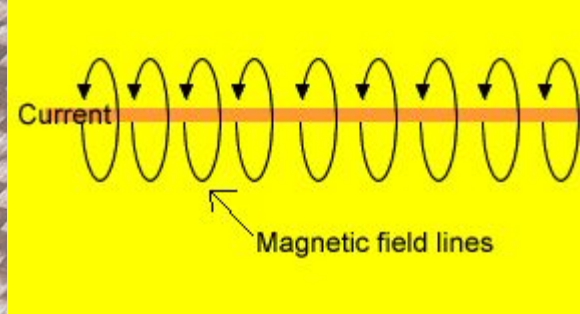


How does a speaker work ?



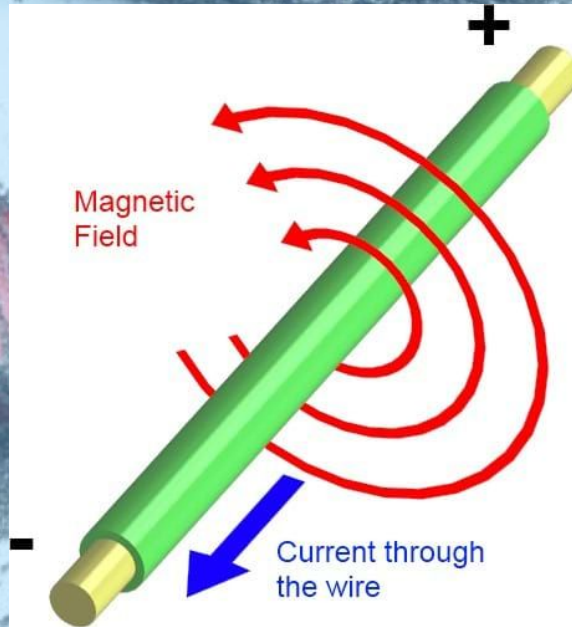
How is the coil moved?

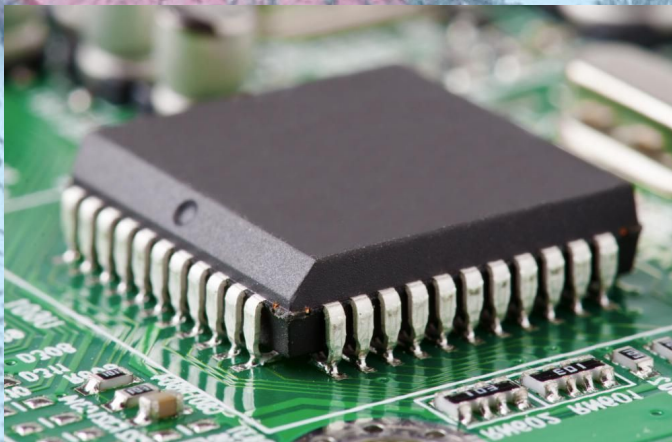
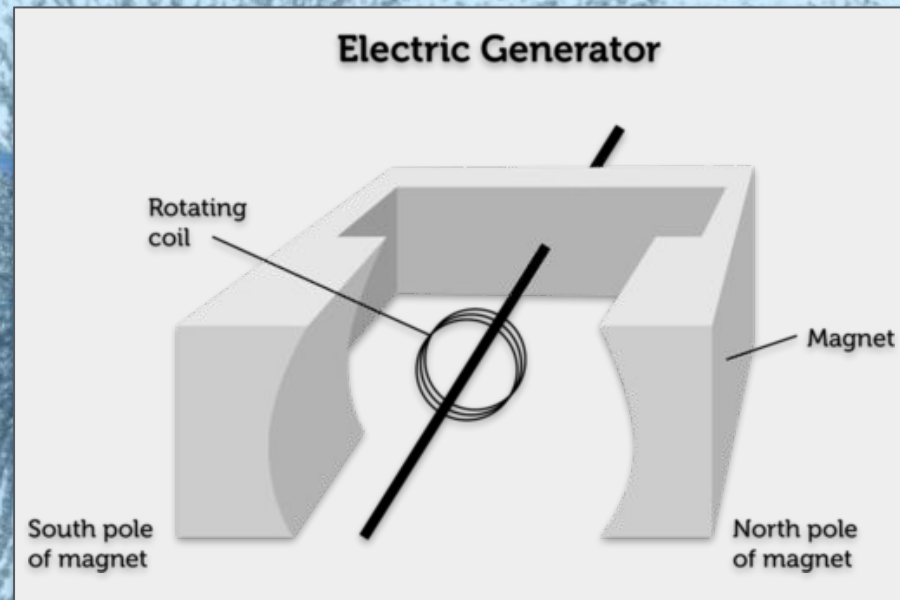
Electromagnetics !!!



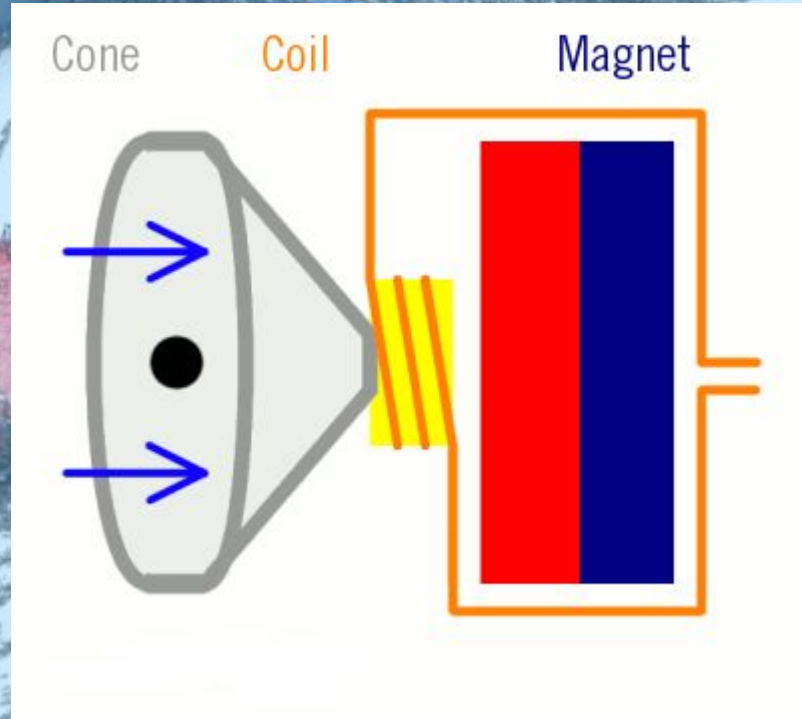
What is Electromagnetics ?

Any flow of electricity **ALWAYS** produces a correlating magnetic field

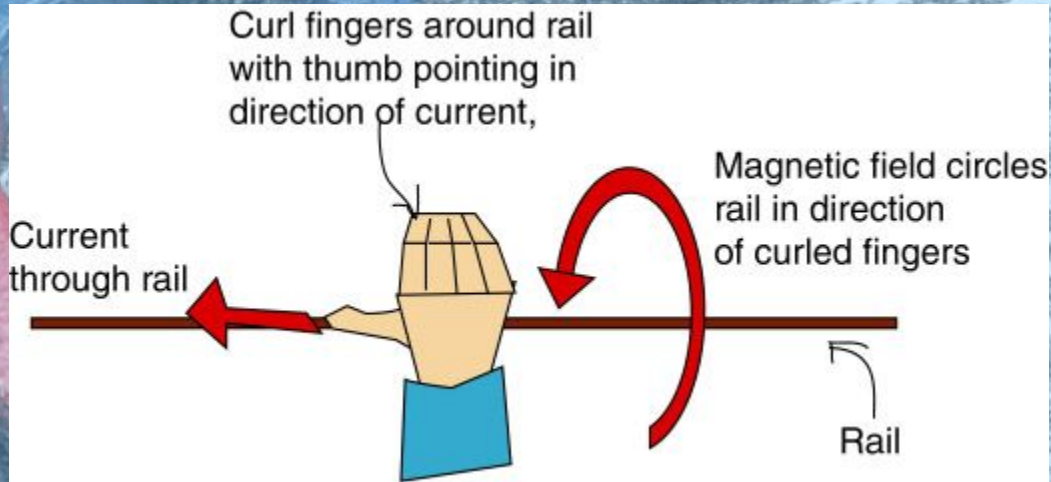




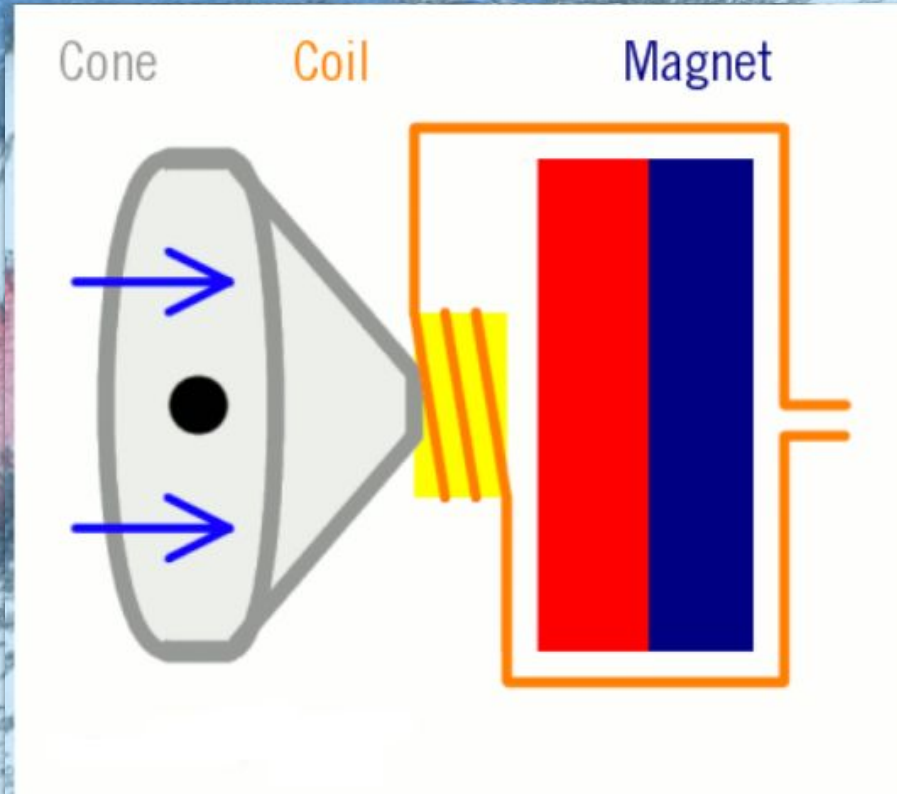
How can we control this magnetic field?



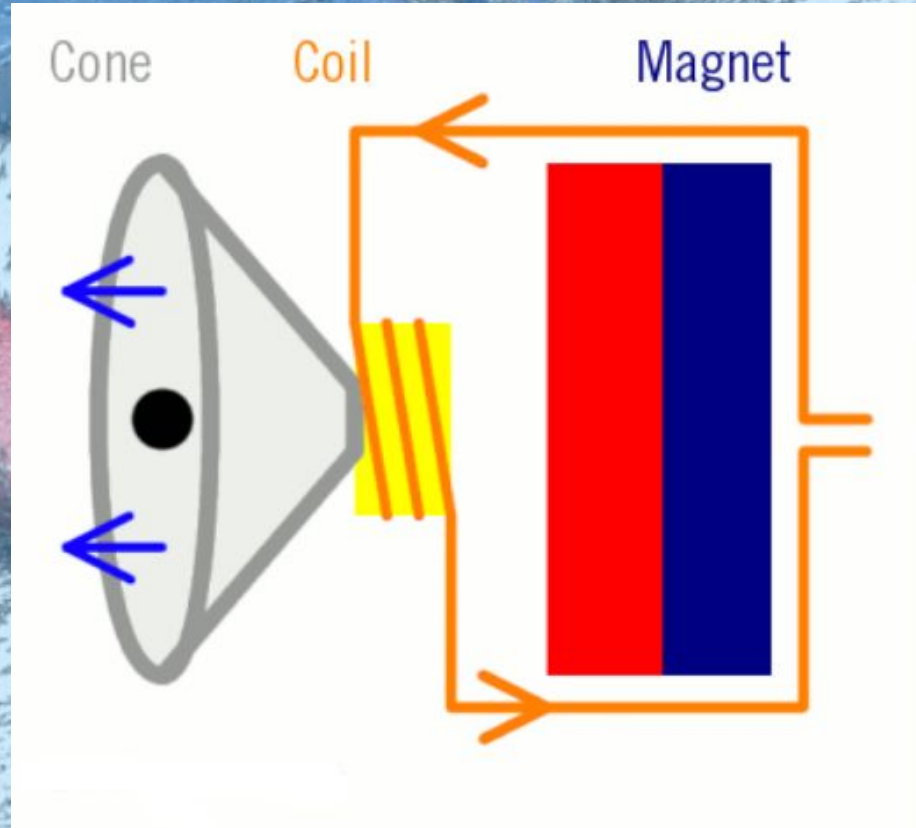
The right hand rule



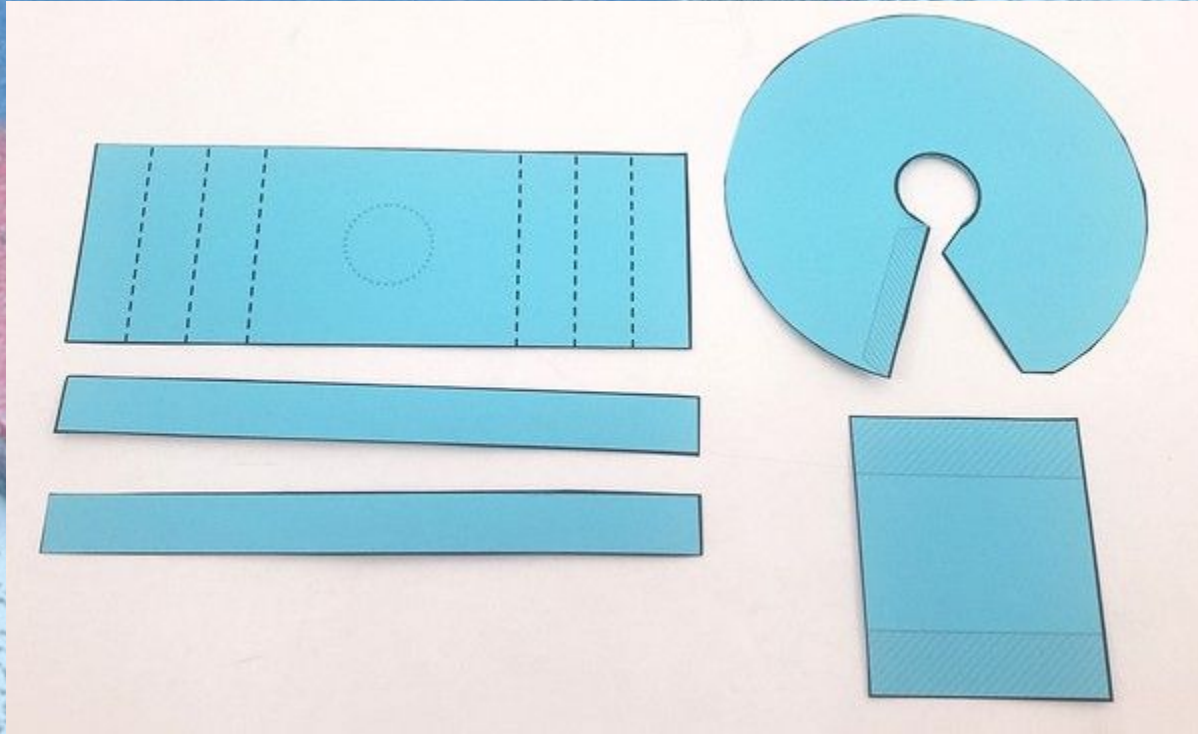
The right hand rule



The right hand rule



Step 1 : Cut



First steps :



Step 2

Wrap 1st strip around magnets



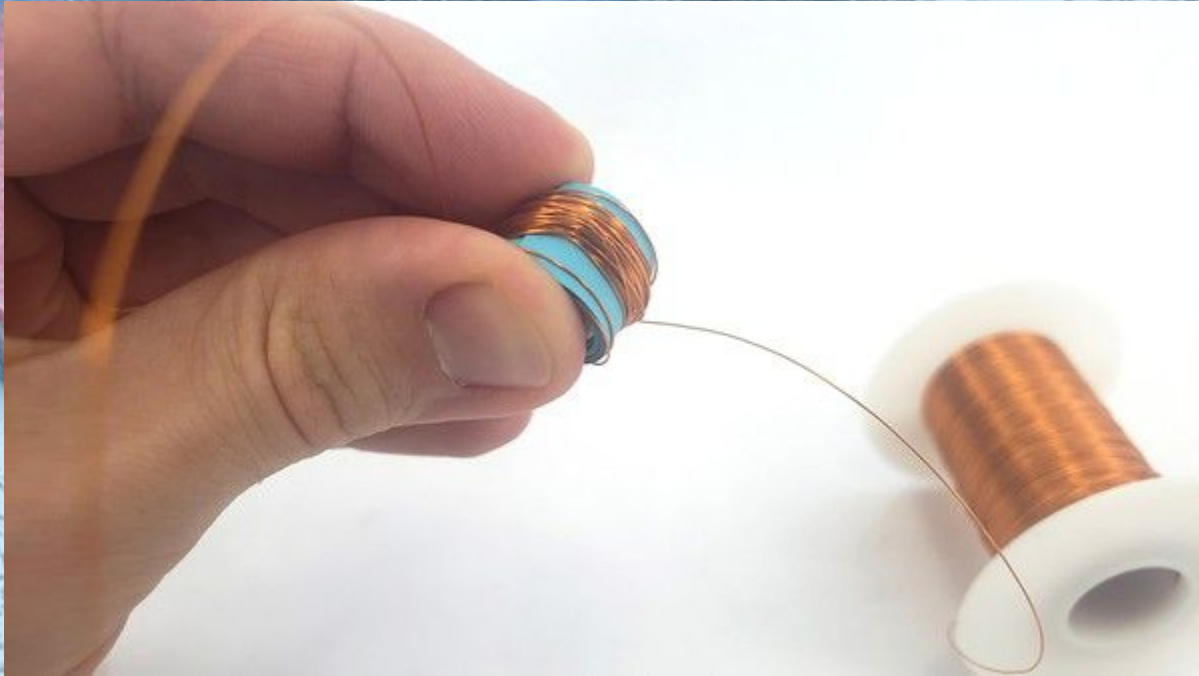
Step 3

Wrap 2nd strip and glue



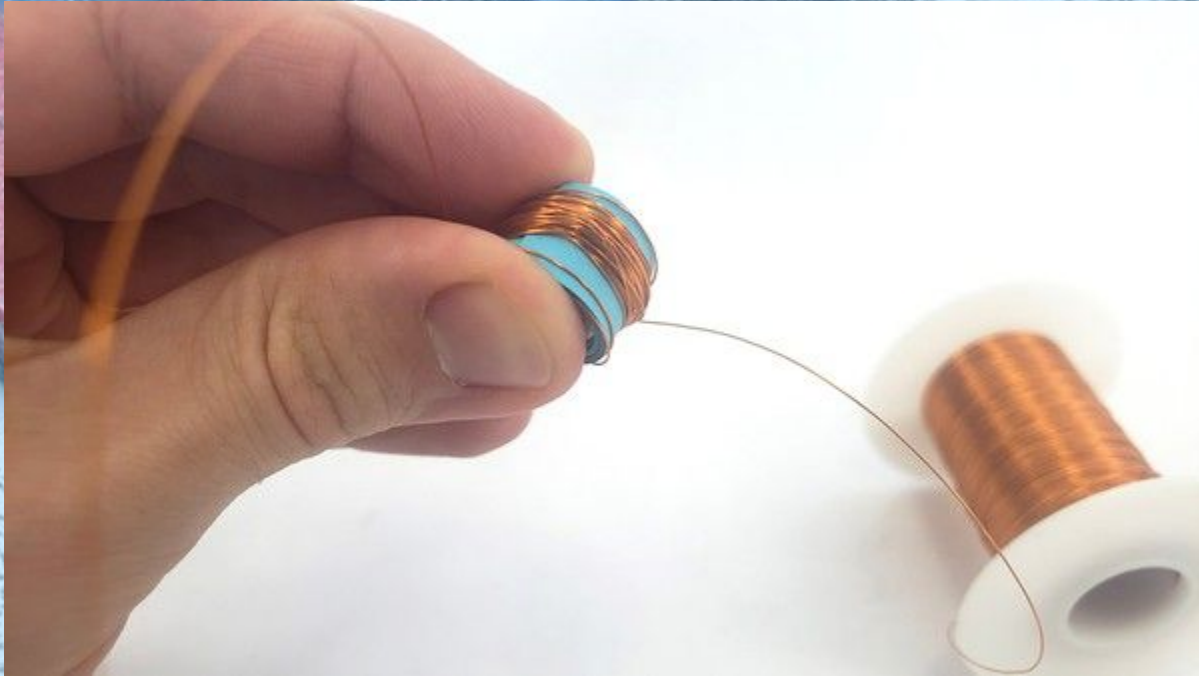
Step 4

Wrap wire 50+ times around coil



Step 4

Wrap wire 50+ times around coil

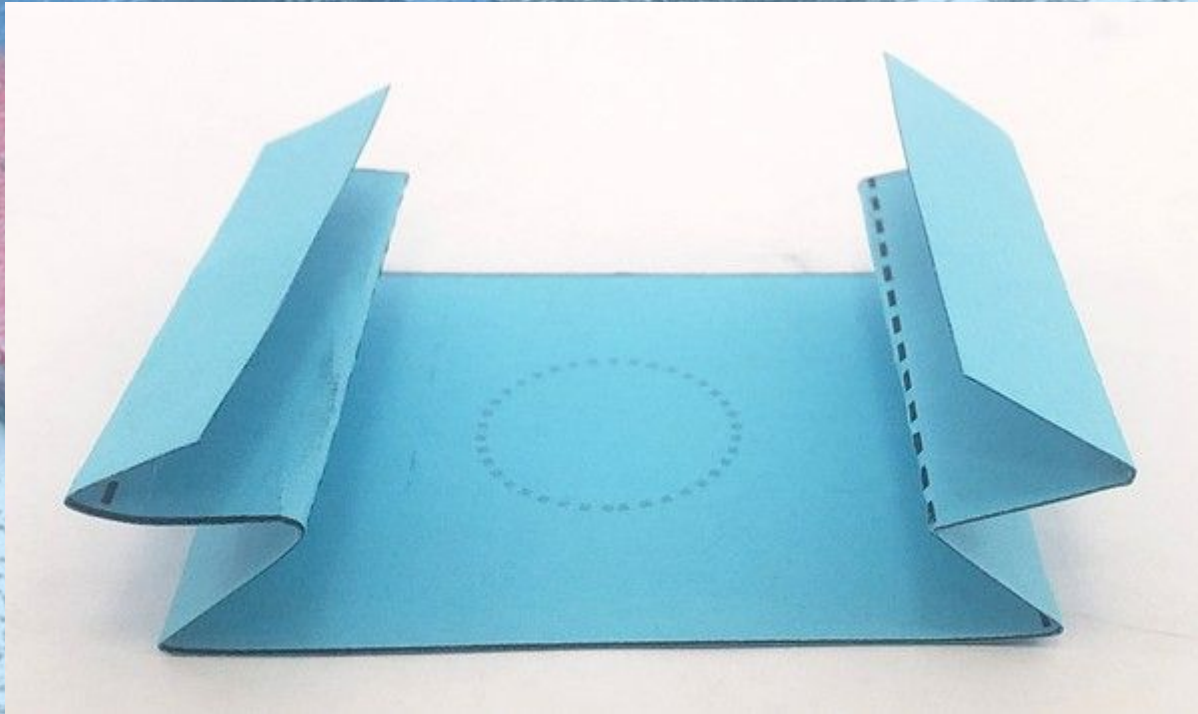


Recap



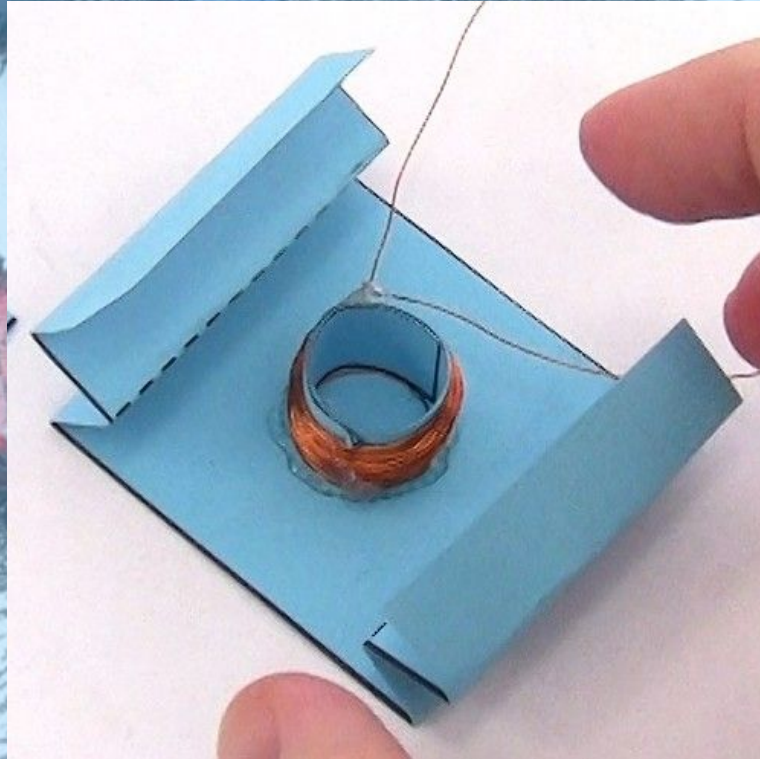
Step 5

Fold “accordion style”



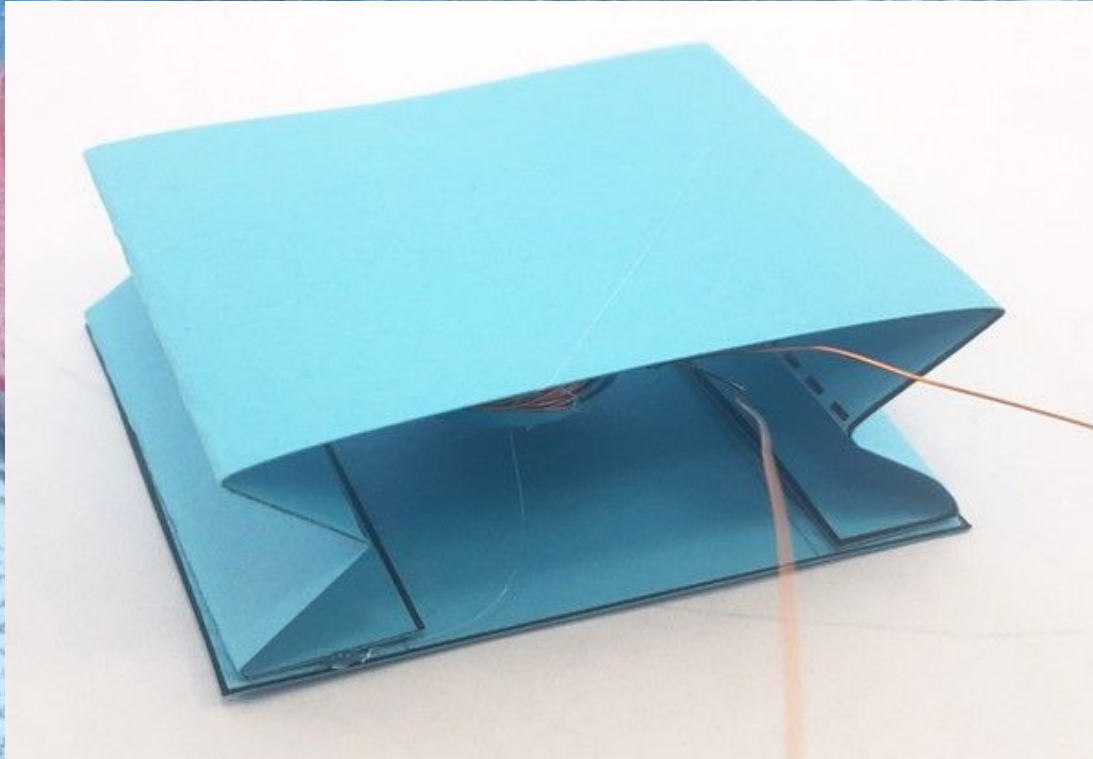
Step 6

Glue Coil in center

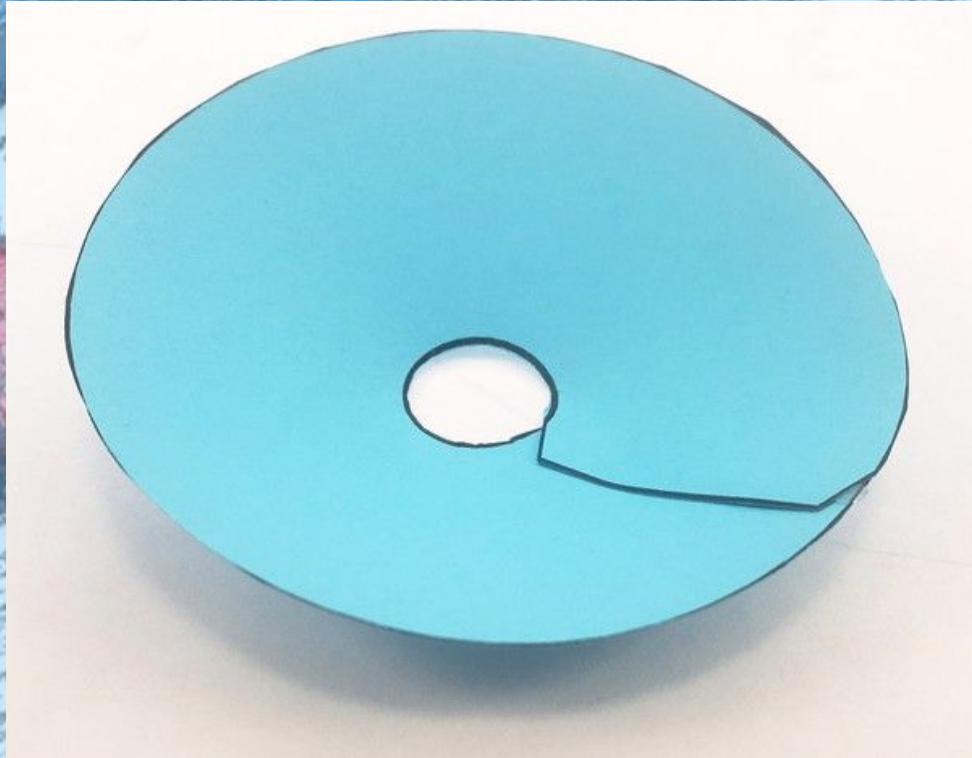


Step 7

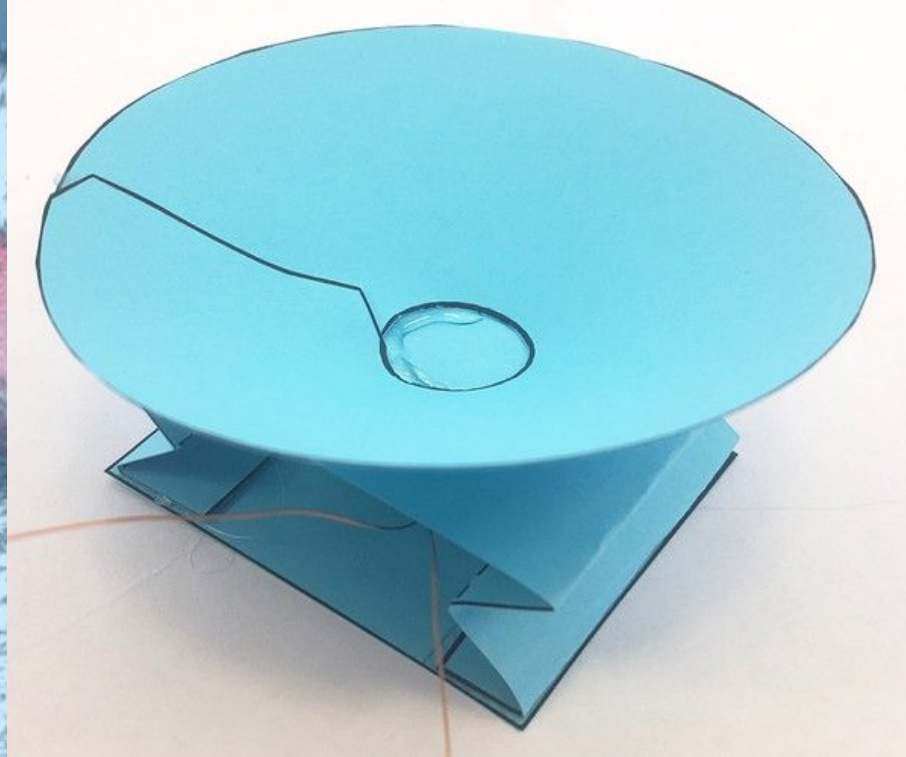
Glue bottom on



Step 8 Assemble Cone



Step 9 Attach Cone



Step 10

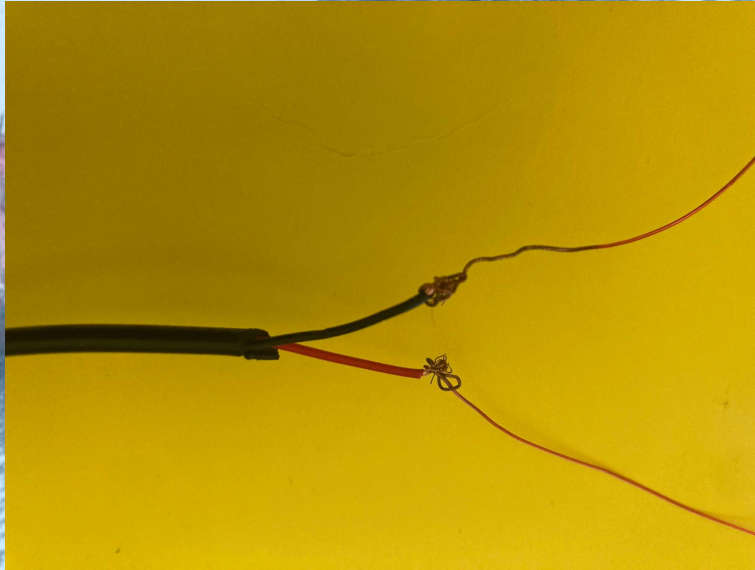
De-Enamel the wire

(Raise your hand)



Step 11

Tape the wires together (Order does not matter)



UCF

**ELECTRICAL AND
COMPUTER
ENGINEERING**



Thank You!

