ZEPTOCORE DIY KIT

YOU CAN DO IT!
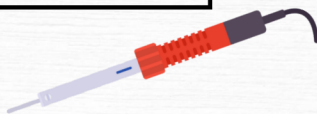
BY INFINITE DIGITS

LETS BUILD THIS:

WHAT YOU'LL NEED:

ELECTRICAL TAPE

SOLDERING IRON

SOLDER WIRE

WIRE CUTTER

WIRE STRIPPERS
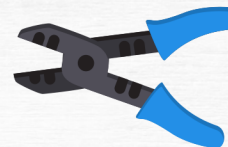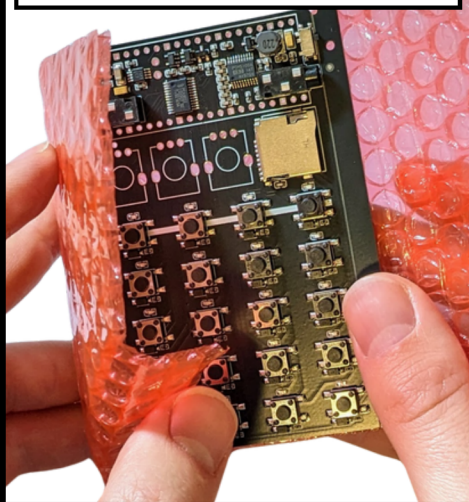
OPTIONAL: GORILLA EPOXY

UNWRAP THE ZEPTOCORE BOARD.

USE WIRE CUTTERS TO REMOVE THE EDGES.
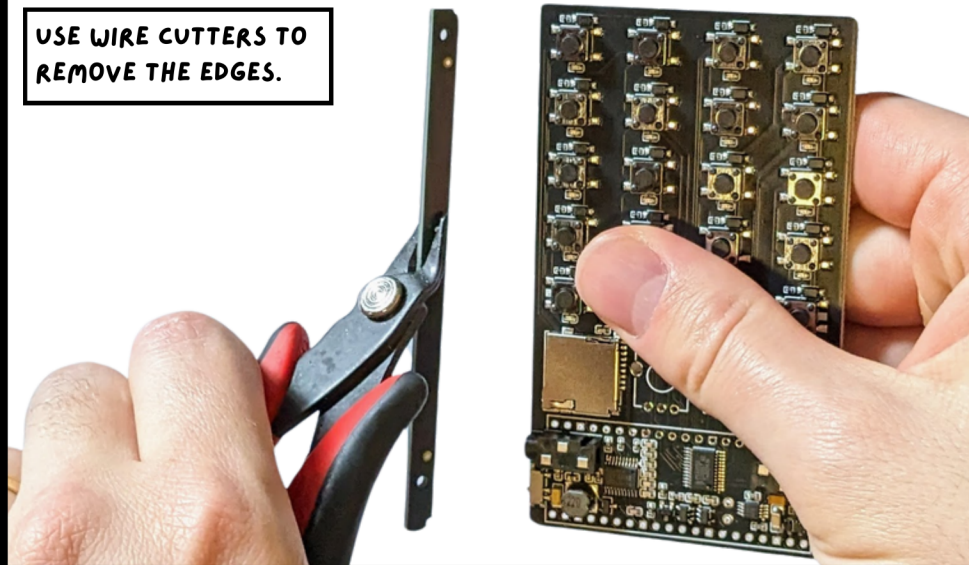
CUT TWO PIECES OF ELECTRICAL TAPE TO ABOUT 6 mm x 11 mm.

TAPE WILL PREVENT SHORT CIRCUITS

PLACE A PIECE OF TAPE ON TOP OF EACH OF THE HEADPHONE JACKS.

PLACE BOTH BLACK FEMALE HEADERS ONTO BOARD.

TURN OVER AND SOLDER FEMALE HEADERS.

GET YELLOW MALE HEADERS AND CHIP.

PLACE BOTH YELLOW MALE HEADERS WITH LONG SIDE DOWN.

CAREFUL! MAKE SURE LONG ENDS GO INTO HEADERS.

PLACE THE CHIP INTO HEADERS. SOLDER THE CHIP INTO THE MALE HEADER.

REMOVE THE CHIP, FOR NOW.

TRIM SPEAKER WIRE SO ITS ABOUT 40 MM LONG. THEN STRIP THE ENDS.

TIN ENDS WITH SOLDER.

JUST ADD A TINY BIT OF SOLDER TO THE END TO KEEP IT FROM SPLAYING

INSERT SPEAKER WIRE ENDS INTO TWO HOLES.

SOLDER SPEAKER WIRES ON THE BACK.

TRIM SPEAKER WIRES.

CUT A PIECE OF ELECTRICAL TAPE AND ADD TO BACK OF SPEAKER.

SITUATE SPEAKER IN BETWEEN FEMALE HEADERS.

ADD POTENTIOMETERS AND CAREFULLY ALIGN BEFORE SOLDERING.

SOLDER THE POTENTIOMETERS FROM THE BACK - ALL THREE POINTS AND THE TWO WINGS AT THE BOTTOM.

IT HELPS TO SOLDER ONE JOINT AT A TIME AND CHECK THAT THEY ARE STILL ALIGNED.

TRIM POTENTIOMETER WINGS WITH WIRE CUTTERS.

GET BATTERY HOLDER AND TRIM BATTERY HOLDER WIRES TO ABOUT 5 MM LONG.

PUT BATTERY PACK INTO HOLES LABLED "VIN" AND "GND" ON BACK.

SOLDER FIRST LEG, NEAR POTENTIOMETER (CAREFUL NOT TO BRIDGE TO POT).

SOLDER SECOND LEG, NO WORRIES IF IT CONNECTS TO SWITCH TOO.

ADD THE PICO CHIP ON TOP, WITH SPEAKER UNDERNEATH.

TURN POTENTIOMETERS FULLY CCW*. ADD THE COLORED KNOBS WITH WHITE LINE POINTING SOUTHEST.

PRESS FIRMLY TO SECURE THE TOPPERS!

OPTIONAL: ADD GORILLA EPOXY INTO BATTERY PACK HOLES, LET SIT 24 HOURS. USE RUBBER BAND TO HOLD TOGETHER WHILE DRYING.

ADD SD CARD (PRELOADED WITH SAMPLES). ADD TWO AAA BATTERIES. GOTO ZEPTOCORE.COM AND GET LATEST FIRMWARE.

HOLD BOOTSEL BUTTON WHILE PLUGGING IN USB. TRANSFER FIRMWARE.

PLAY! ZEPTOCORE.COM FOR GUIDE.