EDGE FORCE: T-72 PROJECT

AIM: To control the Gun controller of T-72 tank through Telecommunication.

OUR APPROACH TOWARDS THE SOLUTION

- GUN CONTROLLER mainly consists of 7 switches and 3 knobs to be controlled and a control handle.
- We plan to control the SWITCHES with the PUSHPULL SOLENOID(s) and the KNOBS with the MOTORS which run through the received signals from the transmitter.
- Two circuits with wireless capability are designed.
    1) Circuit to control the setup in the military base:
        a) Consists of switches, analog potentiometers (similar to rotatable knobs).
    2) Circuit integrated into the Tank's gun controller structure:
        a) Consisting of Push-pull solenoids and motors to reciprocate the movements of switches and knobs.

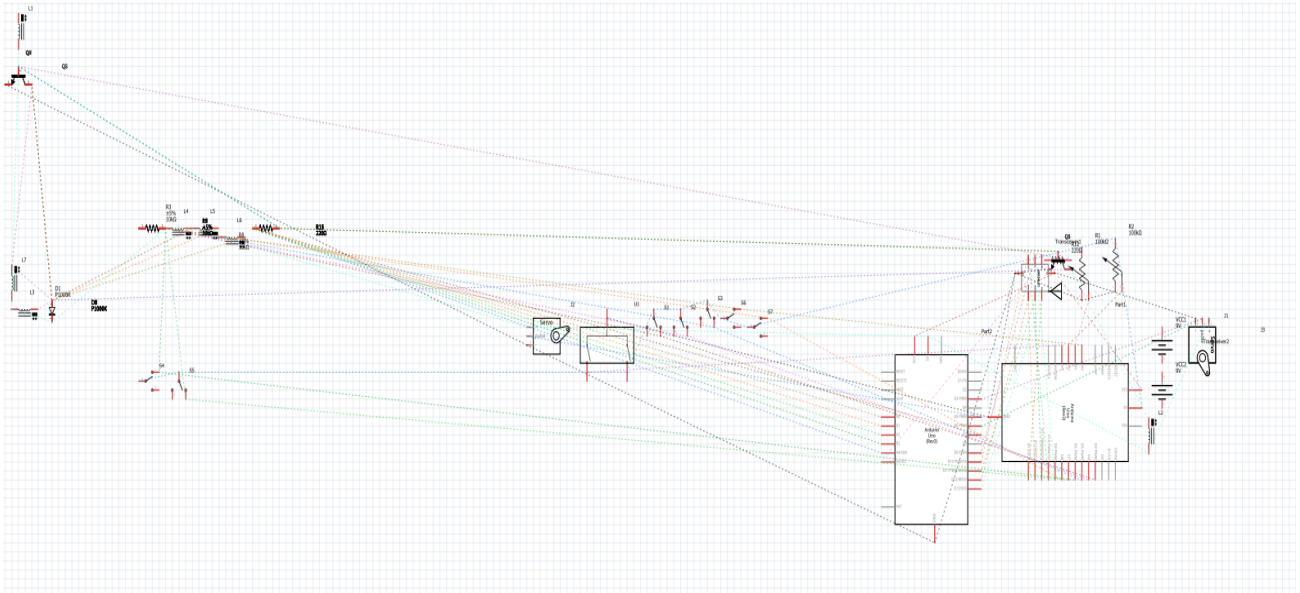
BOTH THE CIRCUITS ARE EQUIPPED WITH MODULATED WIRELESS TRANSCEIVERS (TRANSMITTER + RECEIVER), TO BE ABLE TO FUNCTION WITH ACCURACY AND WITHOUT DELAY.

PHASES OF CIRCUIT DESIGNING

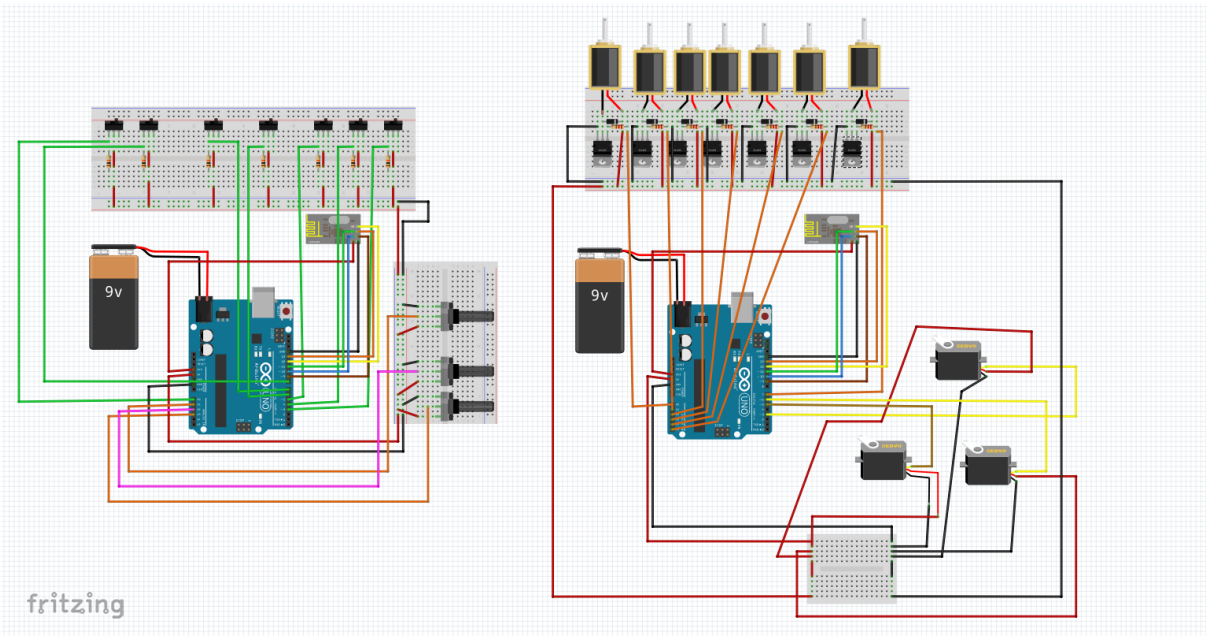
1) SCHEMATICS
2) CIRCUIT CONNECTIONS
3) EXECUTION

4) DEBUGGING

SCHEMATICS:



CIRCUIT CONNECTIONS:



FUNCTIONING: