Virginia Cangelosi - Amplifying Circuit

I am a University student studying Electrical and Electronic Engineering. During my second year, I had to work on several projects. One of these projects was to build an amplifying circuit based on one that I had been studying in the lectures. Using the equations, we had been taught, I chose the values of each resistor and capacitor to create the most efficient combination.

I used a software called LTSpice (Figure 1) to test the circuit as it gives an estimate of what the current and voltage will be in different points of the circuit.

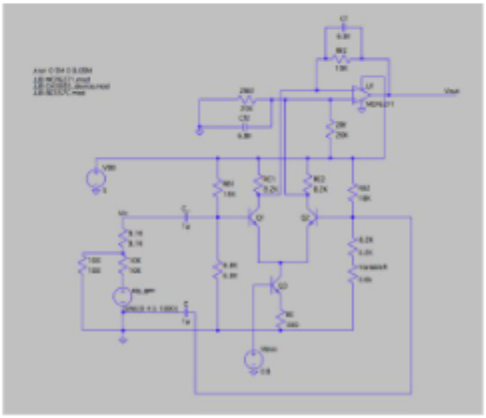

Figure 1

I then built the circuit on a breadboard (Figure 2) and tested it again using an oscilloscope (Figure 3) to ensure all the components were working and that they had been connected correctly.

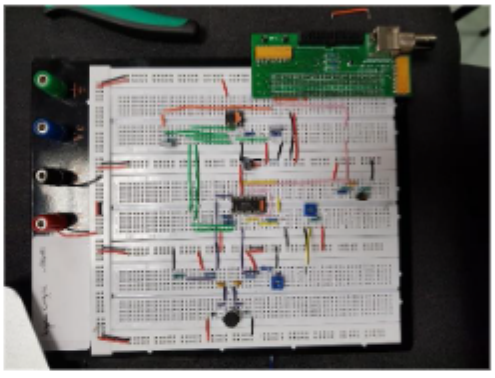

Figure 2

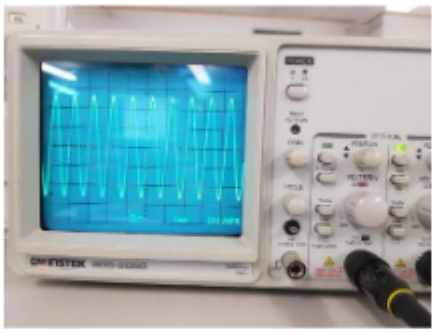

Figure 3