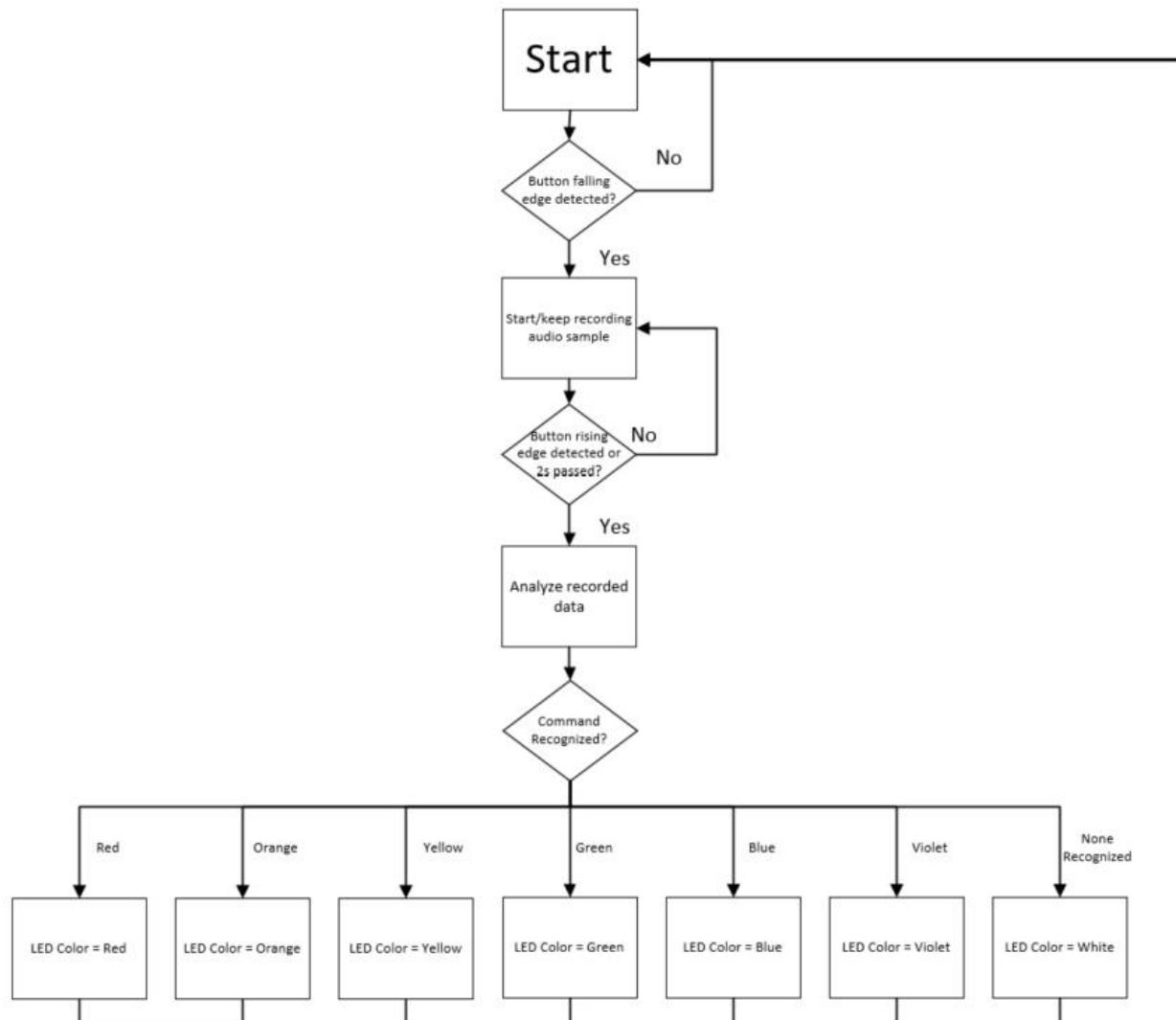


6-Command Audio Recognition

For my semester project I would like to implement simple audio recognition that can recognize the name of colors being spoken and change the built in RGB-LED accordingly. The colors I would like to be recognized are red, orange, yellow, green, blue, and violet. The program flow for this would look like:



I found a few full write ups of simple voice recognition on embedded devices – one of them was a write up from 1998 of using a Motorola 68HC705J1A 8-bit processor that could recognize up to 16-commands. From this, I believe our hardware is fully capable of implementing this design.