ARM Project #5

This project aims to generate different analog output waveforms from the STM32 Value Line Discovery kit.

- 1. For the Value Line Discovery kit used, follow the circuit diagram and find out the values of V_{DDA} , V_{SSA} , V_{REF+} and V_{REF-} .
- 2. Write a simple program to generate a DC voltage of 1 Volt at the output of DAC Channel 1. Measure the output using an avometer to confirm your program.
- 3. Write a program to generate a triangular wave with a fundamental frequency of 1 kHz and amplitude of 2 V_{p-p} using software triggering and simple delay loops.
- 4. Write a program to generate the same triangular wave as in part 3 but using timer triggering. Comment on the comparison between the results of these two parts.
- 5. Write a program to allow the kit to work as an ECG simulator.