5780 Project Proposal

Group Members:
   Dirk Lamb, u1065191 (Section 005)
   Michelle Simmons, u0871595 (Section 006)

For our project, we're going to build a simple analog synth circuit, where the synth's effects are controlled by a potentiometer. We will be using digital potentiometers and rotary encoders, which will communicate with each other and the Discovery Board via I2C. Digital potentiometers will be controlled both through console input via USART and by corresponding rotary encoders. We'll be using a DAC to output voltage control signals for our oscillator circuit.
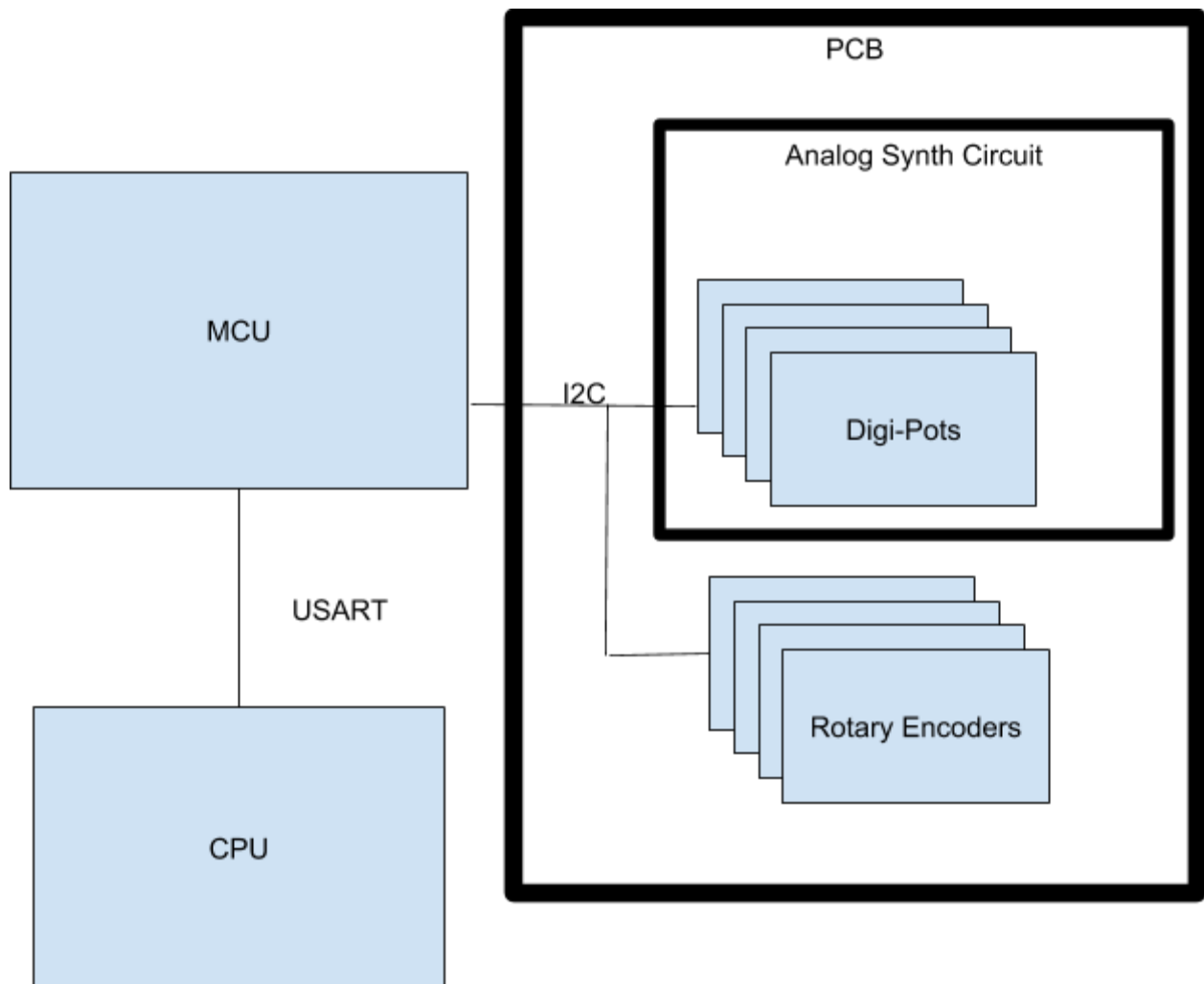
Here are our proposed milestones:
1. Basic oscillator/synthesizer analog circuit, using an analog potentiometer
2. Schematic of synth circuit complete & fabbed, PCB ordered
3. Replace analog potentiometer with a digital potentiometer; allow console to read from and write to digipot & use rotary encoder to control digipot
4. PCB soldered