LCD Implementation setbacks

Starting from out of the box to having the display show exactly what we want in the format we wanted it caused a few setbacks. When interfacing to a separate device that requires more power than the PICkit2 programmer will allow the board to have requires a bit more planning. Determining the proper resistance to get the proper voltage was done somewhat easily. The V0 pin the LCD screen which adjusts the contrast caused a major setback. After scanning the data sheet I concluded that the contrast pin (V0 pin) needed a voltage between Vdd and ground. Therefore I set it around 3 volts. After debugging for an extended period of time I revisited the issue. Turns out the voltage on V0 should be close to or less than 1V. Once this was fixed, my code, which I couldn’t tell if it had worked before, now worked. Most timing issues were resolved using MPLab’s stopwatch and following the datasheet.