#### Dev Shah

#### WEEK 11:

**Date:**3/25/22  
**Total hours:** 8  
**Description of design efforts:**  
This week, I continued my work on programming the accelerometer. I was originally using a program that was made for our old accelerometer and modifying it to fit the new one. However, because I became stuck while modifying this program, I decided to completely restart with a new one. Using this new program, I have been able to successfully write to the accelerometer’s registers and read the existing values from them. However, these tasks only work when done separately. When I try to write a value to a register and read that same value, the program is able to write to it but not read from it. The image below (Image 11.1) shows the result of what the program outputs when both tasks are meant to happen. I noticed that sometimes when I try to test the individual reading/writing functions, the program no longer detects the accelerometer. I have started researching why this is and if it is because the functions I created are faulty.

Text

Description automatically generated

Image 11.1