MP-1 Write-Up

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1 Objective

In this lab we were introduced to the Xilinx tools and the lab environment setup. Also, we did some basic VHDL coding to manipulate a UART link.

2 Initial Test

After generating the bitfile, I uploaded the file to the Xilinx board. After running the program, LEDs 1 and 4 lit up and remained lit. I then connected to the Xilinx board over the serial link using minicom. The Xilinx board simply echoed back any data sent to it over the serial link.

- 3 Setting up Bluetooth
- 4 Talking to the Quad
- 5 PPM Passthrough
- 6 Data Analysis
- 7 Pseudo-GPS
- 8 PID Controller
- 9 Conclusion