State Estimation of Soda and Referigerator Temeratures with Kalman Filter Measured 16-Soda Temp [Celcius] Estimated 14-One Standard Deviation 12-10 -8 6 -2 -0 -Fridge Temperature [Celcius] 18 -Measured 16-**Estimated** 14 -One Standard Deviation 12 -10 -8 6 4 -2 -Soda Estimation Error 0.4 -0.2 0.0 -**-**0.2 --0.4 1000 2000 6000 5000 0 3000 4000 7000 Time [min]