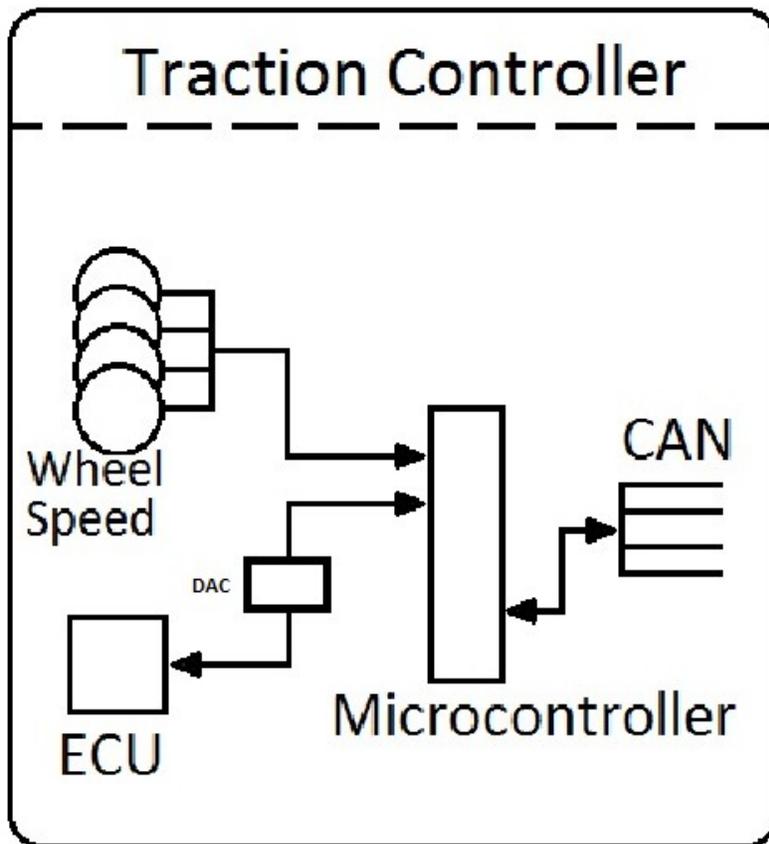


Travis Tynes  
ECE 4220 Project Proposal



This project begins with hall-effect sensors on each of four tires on a formula car sending a pulse on each notch of a break pad from which we can calculate speed of the front tires, compare it to the speed of the back tires and calculate the slip of the tires, before the race a maximum desired slip percentage is chosen, if the calculated slip is greater than the desired slip then we communicate with the engine control unit via a Digital to analog converter to bog down the engine slowing the car down until the slip is at a more desired level. The results are also stored in the Car Area Network and connects to a pc via a wireless connection for easy access of the results. Another thing that we could do is change the scheduling of the events to see how it affects the performance of the car.