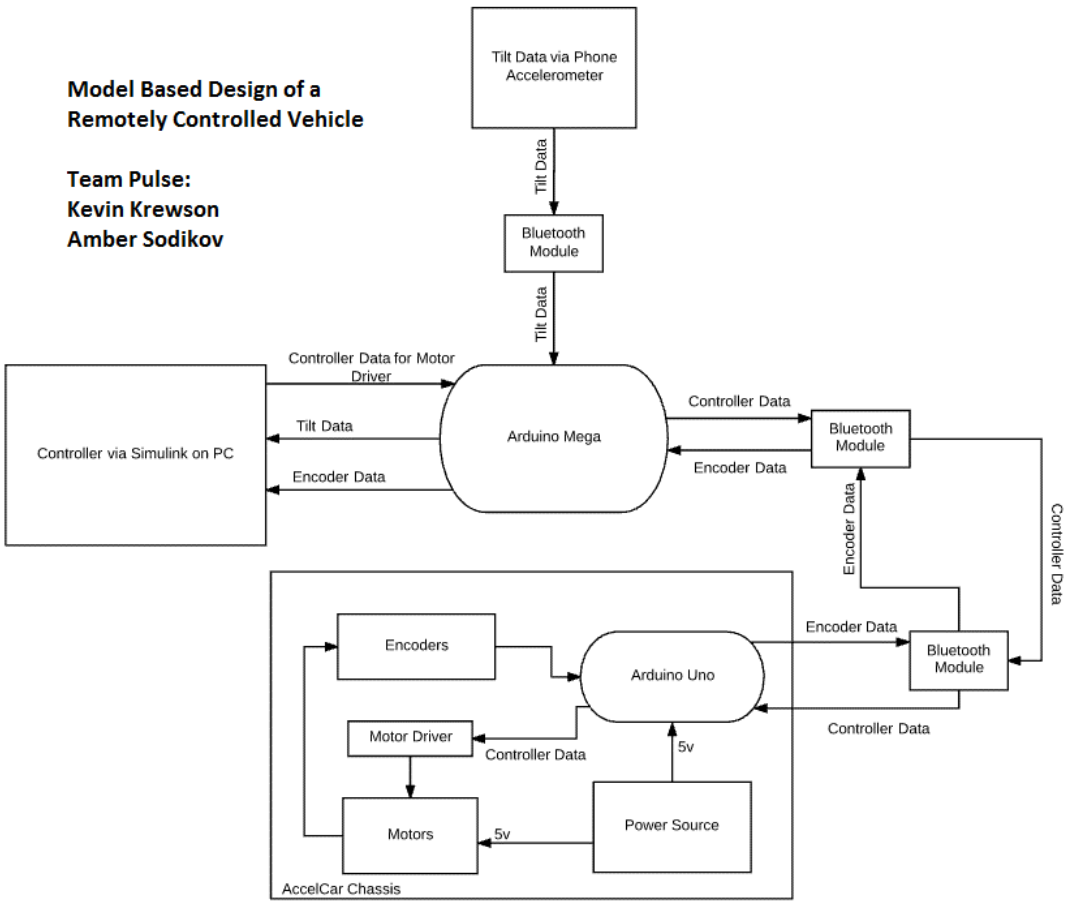
Electrical Engineering Technology

Team Pulse

Abstract
Our main goal is to demonstrate hardware in the loop through PID control of a remote controlled car. This system uses data collected from an android cell phone app to remotely control a vehicle. A Bluetooth connection sends user data to an Arduino Mega using Simulink to appropriately format and transmit data to an Arduino Uno. This output data is used to control the motors' speed and direction. Feedback data from the motors is sent to the Mega to allow for closed loop control. Real time input/output data can be viewed in a Simulink simulation demonstrating hardware in the loop.

Team members:
Kevin Krewson
Amber Sodikov
Sponsors
Dr. Elias Kougianos



COLLEGE OF ENGINEERING UNT

Electrical Engineering Technology

Team Python

Abstract
To design, read, and display an air quality monitor utilizing the Internet of things (IoT)

Team members:
Alex Crider
Jean Claude Roy
Adreian Oliveria
Sponsors
Dr. Kougianos