## CarisPAWMsg **Wheel Modules** carisPAWMsg.time stamp = timeSinceTeensyStart (ms) carisPAWMsq.sensorType =IMU 6 The wheel modules run off of a carisPAWMsg.acc x = x acceleration value in g Teensy 3.6 development board and carisPAWMsq.acc y = y acceleration value in q capture IMU signals from the wheels carisPAWMsg.acc z = z acceleration value in g to transmit wirelessly through carisPAWMsg.angular x = x ang. velocity value in deg/s bluetooth. carisPAWMsq.angular y = y ang. velocity value in deg/s carisPAWMsg.angular z = z ang. velocity value in deg/s Calibrate in static Read data from Encode proto Transmit packet Encode Message Left Wheel buffers using to server via MPU-6050 state to remove Module Using Proto Buffers (6-axis IMU) COBS Bluetooth offsets 333.33 Hz TeensyClient.ino Variable in Memory Overhead byte Delimiter Byte COBS **→** 04 ?? ?? ?? ?? Packetize Encoding Original Data Transformed Data

