

**EE/CpE 423-424  
WEEKLY STATUS REPORT**

<b>Group #</b>	<b>09</b>	<b>Week ending:</b>	<b>11/23/03</b>	<b>Report #</b>	<b>10</b>
<b>Project Title:</b>	<b>GPS Mass Transit Tracker</b>				
<b>Group Leader:</b>	<b>Andrew Zimmer</b>	<b>Advisor:</b>	<b>Prof. McNair</b>		
<b>Sponsor/Client:</b>					
<b>Total number of person-hours spent on project by group during past week:</b>				<b>24</b>	
<b>Is project on schedule?</b>		<b>Yes</b>	<b>[ x ]</b>	<b>No</b>	<b>[ ]</b>

<b>Weekly status:</b>
<p>This week we spent a lot of time analyzing the RS232 communications and data output from the Gramin GPS receiver that we are going to be using to acquire position information. Some of the highlights are as follows:</p> <ul style="list-style-type: none"> <li>- Gramin uses a communication standard very similar to NEMA 0183</li> <li>- Their output data is in the form of ASCII characters</li> <li>- Gramin uses 8 data bits with no parity and one stop bit for transmission</li> <li>- Gramin uses 4800 baud rate</li> <li>- The receiver checks its location every 2 seconds</li> </ul> <p>Unfortunately, ASCII code is a very inefficient way to transmit information in the form of integers. Thus, we will either have to format the data within each microprocessor before RF transmission, or break up the bus routs into zones, capable of handling the number of busses it encompasses. In last weeks meeting, we discusses the possibility of placing a receiver node at each bus stop, thus supporting the idea of a zoned coverage area.</p>

**Weekly report is due to Senior Design Coordinator by Noon Monday**