Autonomous Remote Data Acquisition System

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ECEN 404 Conceptual Design Review
System Overview

![Diagram of System Overview]
# Subsystem Matrix

<table>
<thead>
<tr>
<th>Subsystem</th>
<th>Responsible Team Member</th>
<th>Tasks</th>
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| **RFID**                   | Jeff Terrell             | Design RFID system including:  
  - Reader module  
  - Passive transponder (tag)  
  - Antennas to transmit power and data |
| **Data Processing & Visualization** | John McCleery |  
  - Transmit data from Teensy++ 2.0 to MySQL database  
  - Export MySQL table to CSV  
  - Import CSV to Fusion Tables and integrate Google Maps API with a website to display data |
| **Power**                  | Raymond Hung             | Design power systems for:  
  - UAV mounted equipment  
  - UAV recharging unit located at base station |
| **Sensors**                | Rebecca Farrar           |  
  - Determine measurements of interest  
  - Research and select appropriate sensors  
  - Interface sensors to the MCU |