Marauder’s Map – Team 01

John Boyd IV
Clayton Crawford
Project Goals and Deliverables

Goal: To create a network of sensors that can be setup to provide tracking information for electronic devices where GPS may not be available (Large buildings or underground facilities).

Deliverables:
• Sensor network
• Tracking tags
• Base station with user friendly UI
Marauder’s Map – Team 01
John Boyd IV, Clayton Crawford
## Subsystem Matrix

<table>
<thead>
<tr>
<th>Subsystem</th>
<th>Team Member</th>
<th>Tasks</th>
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| Field Sensor Network    | John Boyd IV         | - Design, construct, and produce the field sensor network hardware consisting of TI MSP430s and TI CC2500 2.4GHz radios  
                          |                      | - Develop firmware for the aforementioned hardware to efficiently measure and transmit data to the central processing hub |
| Tracking Tag            | John Boyd IV         | - 2.4GHz radio transmitter that will be tracked in the network       |
| Base Station            | Clayton Crawford     | - Implement triangulation/trilateration algorithm on the Stellaris Launchpad  
                          |                      | - Extrapolate location information from the sensor data and display the data to the user via touch screen display, web app, or other media |