

Project title:RF ID Mapping

Project Description:The inspiring scenario is where someone has a pallet of material/equipment and needs something in that mass of “stuff”. It is all passive RFID tagged. Design a device that will scan the pile of “stuff”, map out where each item is at, and provide a display of the organization. The concept could also be upscaled to larger applications. We figure you would need 3 RFID sensors that would each feed bearing and distance to a central processing unit. That unit would triangulate the position of each individual item and then map it. To simplify the calculation, you’d probably want to mount the sensors physically instead of holding by hand just to avoid physical movement. This could support multiple engineers with the interface to the different components, the triangulation algorithm, and the display of the result (possible GUI design).

Project discipline: (Electrical/Computer Engineering, or multi-disciplinary EE/CPE and ME)

Electrical/Computer Engineering Multi-disciplinary

Expected number of Students: 3

Budget: \$300

Sponsor Company: ECE Department

Contact information:

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