LAND OF THE RISING DRONES

Drone On-Board Systems Overview

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On-Board Systems Concept

Idea: Find a solution to aid the government and rescue workers when a nuclear accident occurs, and make sure that returns after are evacuations quicker and more confident

How: Using the Arduino open-source electronics prototyping platform, compile modules and sensors to send data over large ranges

Execution: As a proof of concept, we have added a GPS to a 433Mhz transmitter module to relay data and information to the receiver module, which will then be displayed on an LCD. Due to the nature of the Arduino platform, we can often integrate new components or replace others within an hour, allowing for a quick turnaround and redeployment.

For annotated code, please see documents: RXC-A and TXC-A