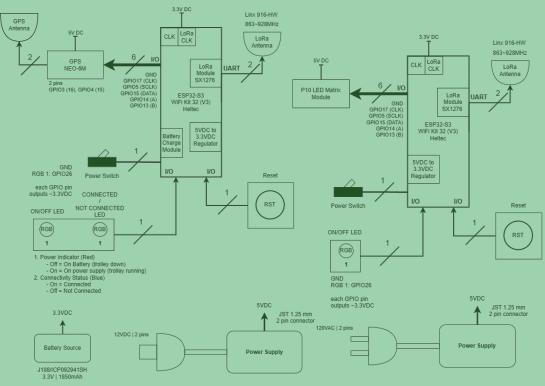


Integrator

Jan Cruz

Designer



Block Diagrams of trolley module (left) and main station module (right)

Main Start

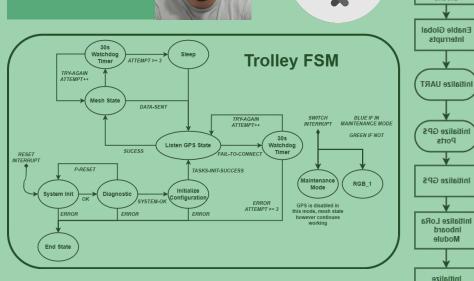
Real-time

Clocks

Interrupts

Module

no i



Public transportation critical is а component to societal infrastructure, yet its reliability falls short, leading to significant inconveniences townspeople. These include extended waiting times, sometimes more than an hour, lack of information of trolley routes nor maintenance times and others. In response, a solution using a mesh network of ESP32s using the LoRa protocol in each trolley and suggested station is as solution.

With a few strategically located stations, this system allows residents to obtain accurate, up-to-date information on trolley locations, thereby significantly reducing waiting periods and improving the service's overall efficiency and reliability.

