Garbage Bins Moers

Hardware

Part	Links
CubeCell AB-01 Dev-Board	Product Website
VL53L0X Time-of-Flight ranging sensor	Product Website
2000 mAh LiPo-Battery	



Fig.: Garbage Bin in the IoT-Lab HSRW



Fig.: Sensor Module



Fig.: Insides of the Module

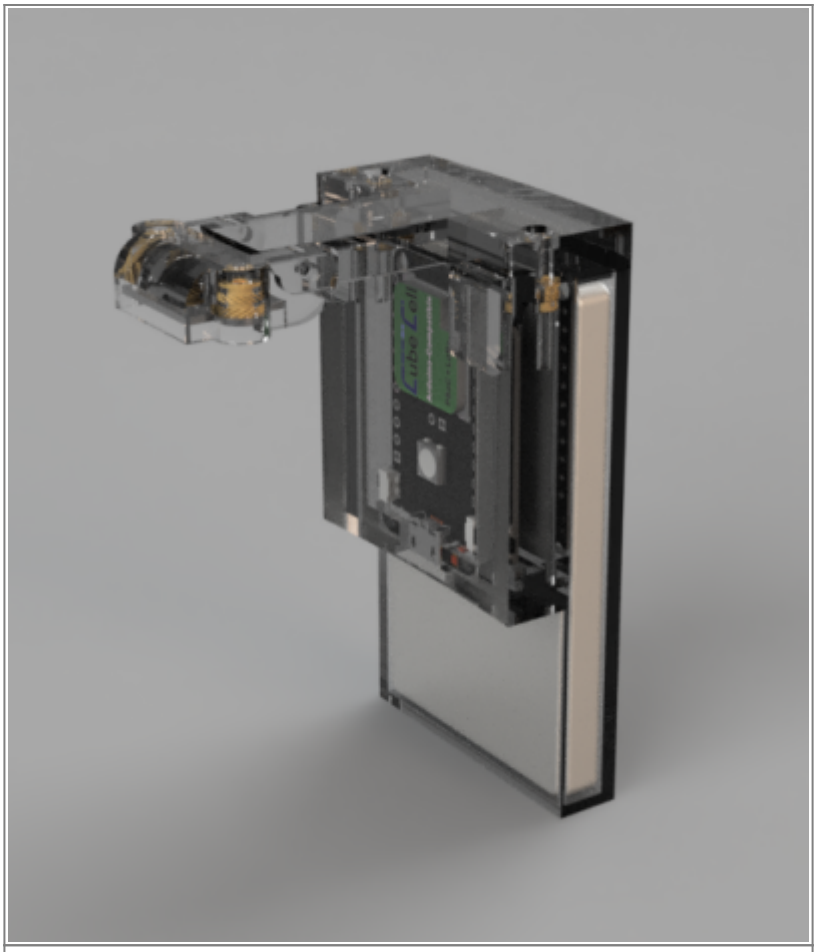


Fig.: CAD



Fig.: Sensor Module installed in the door of the trashcan



Fig.: Sensor Module installed in the door of the trashcan

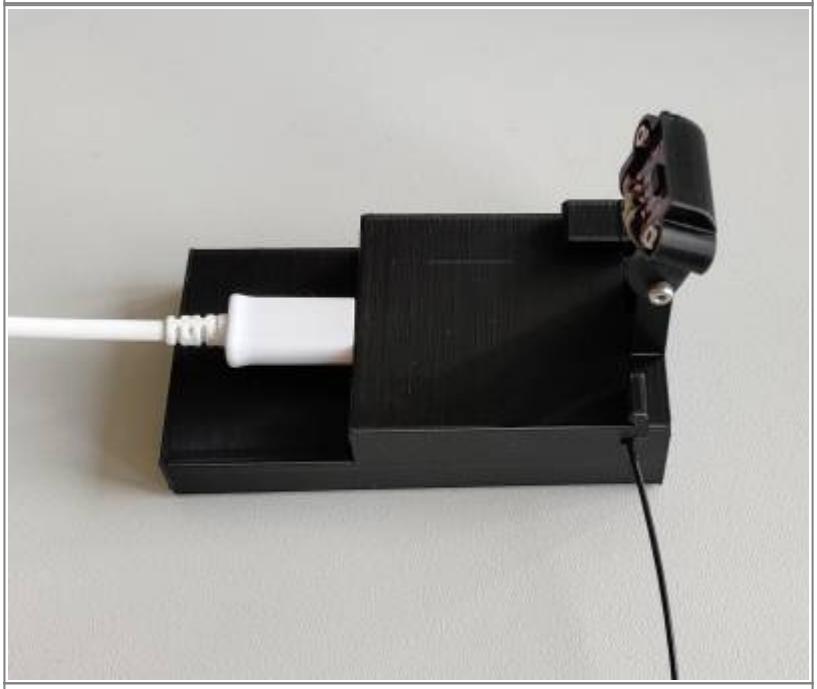


Fig.: Charging/Progamming the Module via USB

Software

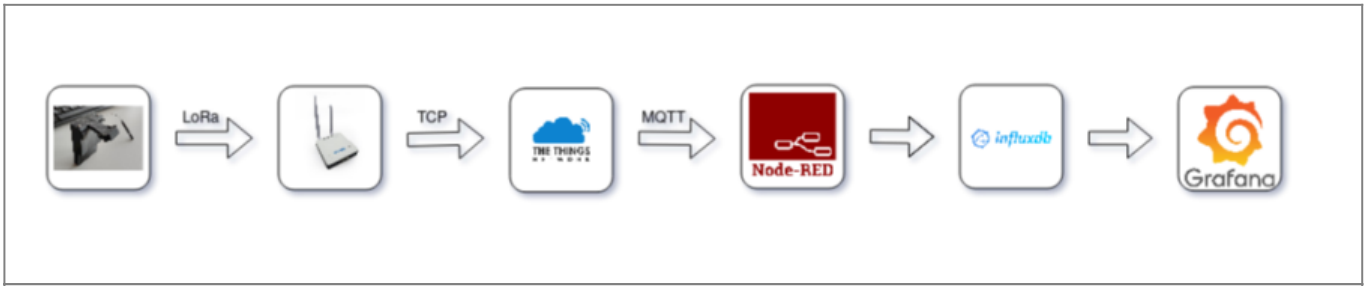


Fig.: Data Flow

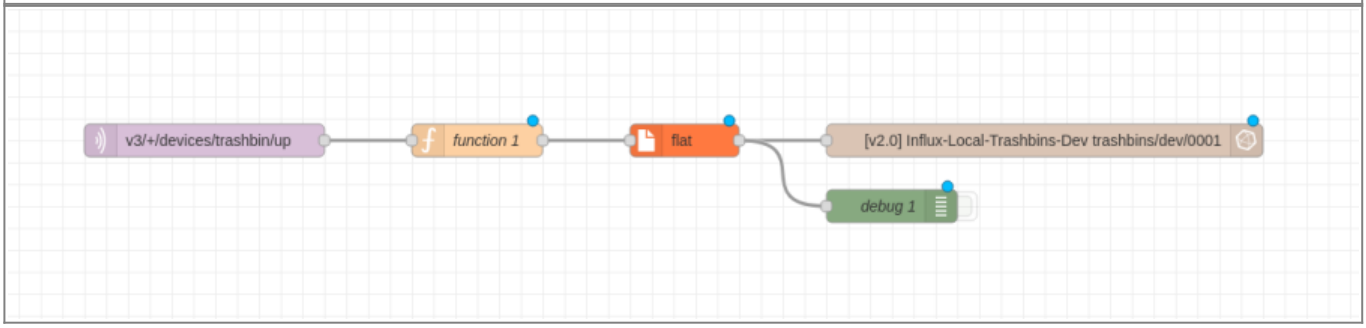


Fig.: Node-Red Flow

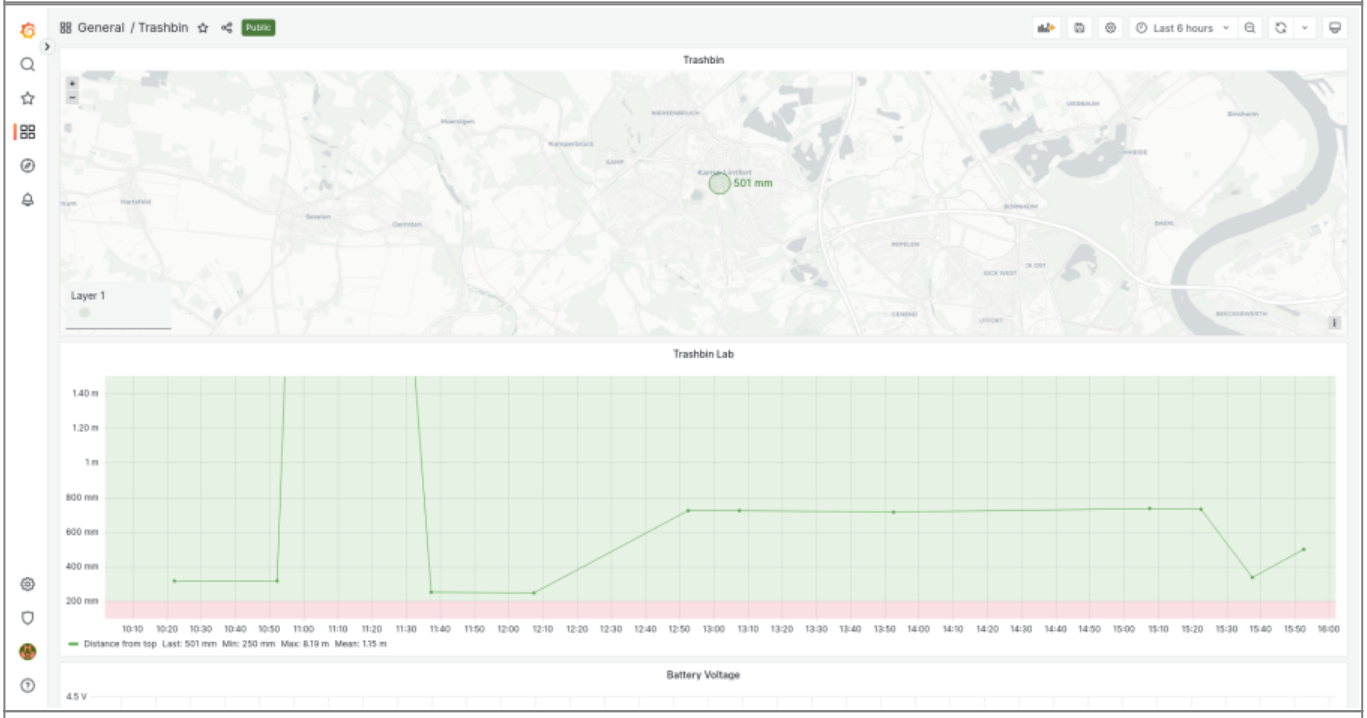


Fig.: Grafana Dashboard

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