| **Problem** | **Cause** | **Solution** |
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| - Burning of electronic components (ZAF specific).- Food distribution is non homogeneous(ZAF specific). - All the pumps connected to a motor controller (LN298) are not working.- A lot of food remains in the food preparation tank.- No food going inside the food preparation tank.- Water leak at the pump output.- Dirty fish water feeding .- Tubes are getting dirty quickly.- The mixed water/food is not going out of the tube- Raspberry Pi is not responsive  | - Voltage ripples due.- tubing issues.- Wiring problem. - bad pumping.- Food delivery is clogged.- Tubing connections with the pump.- Overfeeding.- Cleaning is not well done.- The pump is not running correctly and our tubes are too long. | - Add 1000uF capacitors in parallel to the motor terminals- All the tubes should be same length - One tube might be pinched or bent.- Check the T splice connector wiring connections- Check the tube position inside the food preparation container, it must be at the bottom.- Possible pump malfunction, change the pump.- Clean the funnel and the food dispenser output.- Change the zip tie and eventually cut the tip of the damaged tube.- Reduce the food quantity delivered by i. Adjusting the software, ii. Adjust the food dispenser closure.- Add more cleaning programs.- Possible pump malfunction, change the pump.- Increase the pump running period in the code source. |