Preemie Baby Warmer: Goals

Easily replicatable documented open-source design to include:

- Sewing Pattern and Instructions
- Circuit Design/Bill Of Materials
- Arduino Code
- Predictable Power Management Performance
- Improved Robustness

Preemie Baby Warmer: Accomplishments

- Created open-source sewing pattern for swaddle and constructed usable prototype from cheaply available materials
- Added High-temp and Low-temp alarms with audible buzzer
- Proved we can raise temperature of gelpak 10 degrees C in 37 minutes with two non-alkaline 6V lantern batteries
- Started open-source PCB design with Fritzing to allow and easy and cheap replication

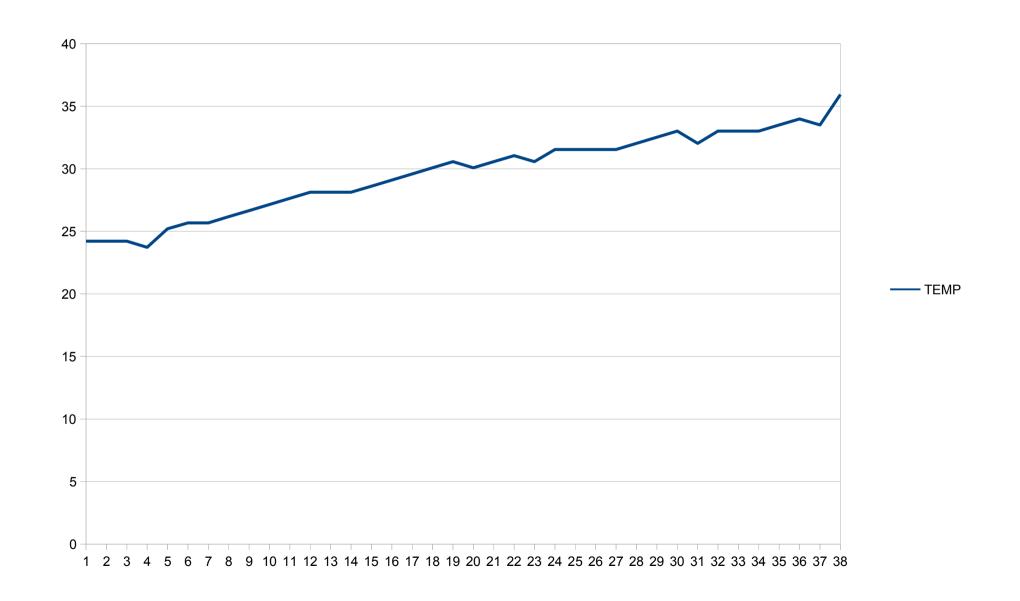
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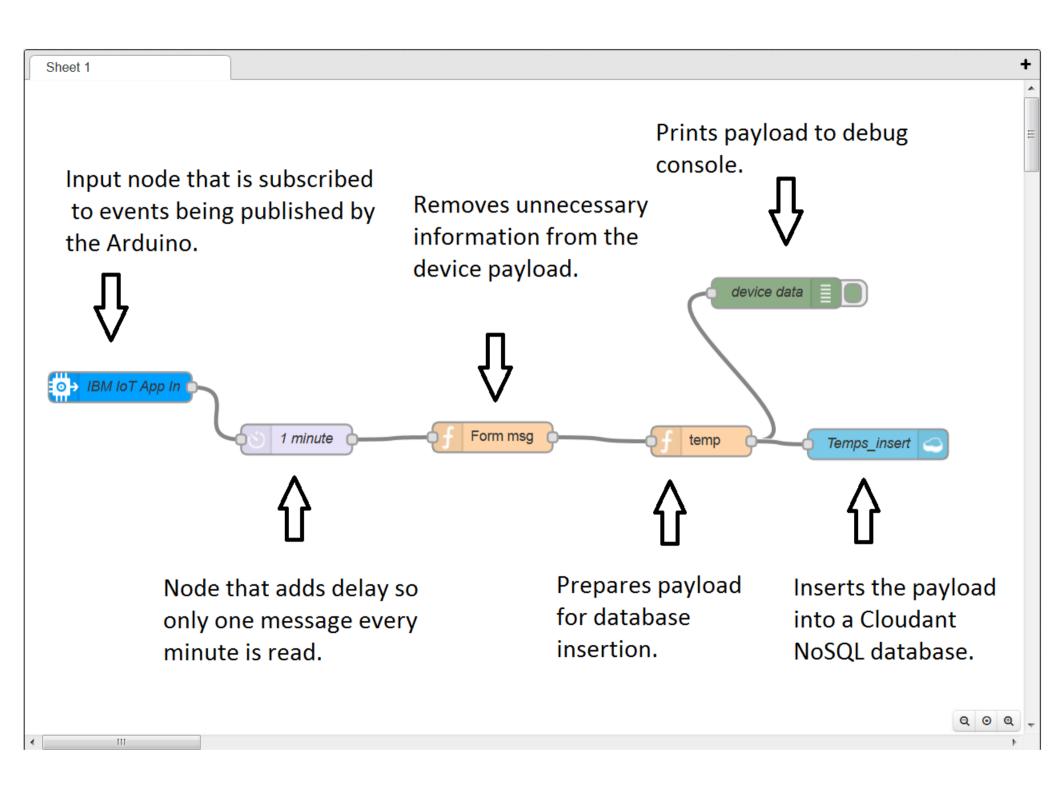
- Sewing Pattern and Instructions YES!
- Circuit Design/Bill Of Materials UNDERWAY!
- Arduino Code YES!
- Predictable Power Management
 Performance PARTIAL!
- Improved Robustness SLIGHT!

Failures....

Doll is cute but a poor model for human flesh

Success: 25 C to 34C in 37 Minutes





TODO:

- Produce start-to-finish Instructable or Video of the this version
- Learn watts needed to maintain steady state and relate to battery type and lifetime
- Improve temperature sensing
- Talk to neonatologists with real experience in the field