

### **Nifty Robot Neck+Vision System - Xtion & PhantomX Turret**

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This is a cute robot 2 degree of freedom neck with range & vision data collection that I put together for my AkachanPion robot. Currently it can be controlled to pan 300 degrees and tilt 180 degrees at increments of 0.3 degrees. The application is written in C++ with separate threads for the vision, the control, the GUI and the state machine. The AkachanPion robot system, which I will show later, is for positioning and delivering a baby's bottle. The vision system is needed to find where the bottle is and to find where the mobile robot is that will be delivering the bottle back to the baby.