## Daisy Chaining EV3's simple tutorial

## Scenario used in this example:

An ultrasonic sensor from the 1<sup>st</sup> EV3 (Master) waits for a value less than 40 centimeters and once it is achieved a tone is played and 1 second later a motor in the 2<sup>nd</sup> EV3 (Slave 1) runs for 5 seconds.

Untitled 1 Block Diagram on EV3 [USB] *	
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Slave Motor V	
Master Ulstrasonic	
Port 1	
Closer (cm) Tone Time T	
Power	
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EV3 (USB) <	►

## Coding:

- Step 1:Turn of Wi-Fi and Bluetooth on all EV3's to be daisy chained
- Step 2: Open configurator on Labview



• Step 3: Assign the sensor port a clear name (i.e. Master Ultrasonic)

• Step 4: Click on the top right of the configurator and change from "Master" to "Slave Layer 1" to access the properties of the daisy chained EV3

📴 Schematic Editor - 🔺		- • ×
🖹 Save 🔀 Close 😰 Schematic Diagram	Allows you to specify and then test your robot setup.	80
Large Motor	Slave Motor D	Slave Layer 1 🔹 🔦
Name Slave Motor Address Motor Port A	Motor Port B D Motor Port C D	Motor Port D
Motor Parameters Power Level .100 0 Reset Encoder GO		
Angle of Rotation 0	Sensor Port 1 D Sensor Port 2 D Sensor Port 3 D	Sensor Port 4

- Step 5: Assign the motor port a clear name (i.e. Slave 1 Motor)
- Step 6: Save and go back to the block diagram
- Step 7: Assign the correct ports to the ultrasonic sensor and motor (see image 1 again)

## Setting up:

- Step 1: Download the code to the "Master" EV3
- Step 2: Connect using the USB cable the side of the "Master EV3" to the top of the "Slave EV3"







• Run program (see attached video for actual result!)