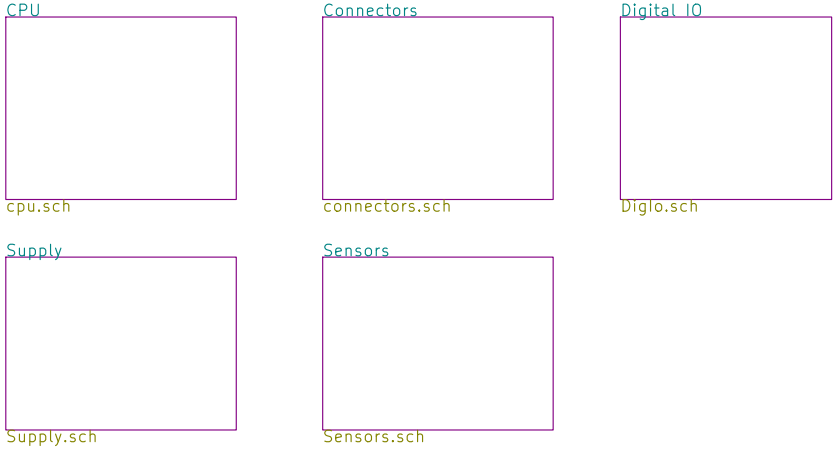

Philip Luyckx		
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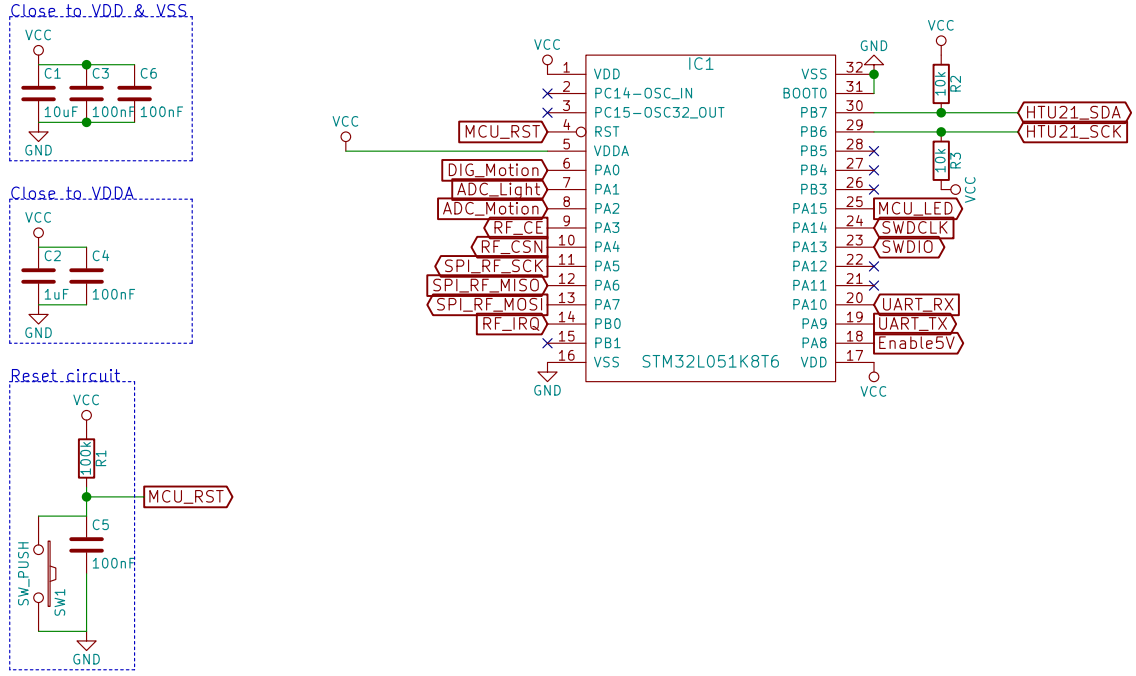
Size: A4	Date: 2016-06-05	**Rev: 3**
KiCad E.D.A. kicad 4.0.2+e4-622538ubuntu16.04.1-stable		Id: 1/6



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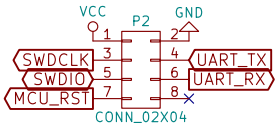
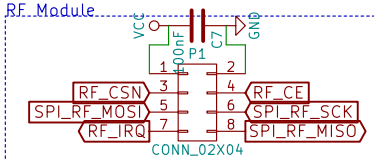
Debug Port



RF Module



Philip Luyckx		
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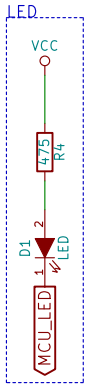

Philip Luyckx		
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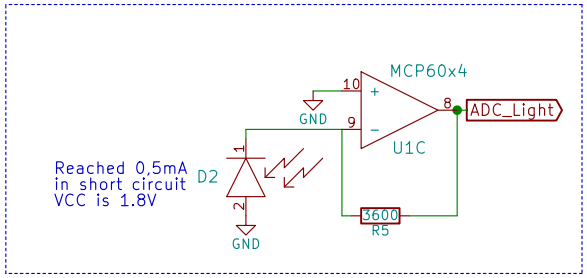
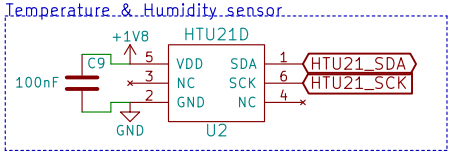
Size: A4	Date: 2016-06-05	**Rev: 3**
KiCad E.D.A. kicad 4.0.2+e4-622538ubuntu16.04.1-stable		Id: 4/6

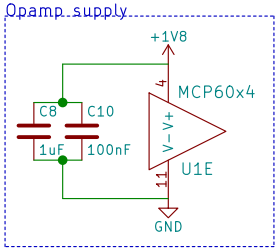
Light Sensor



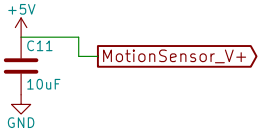
Temperature & Humidity sensor



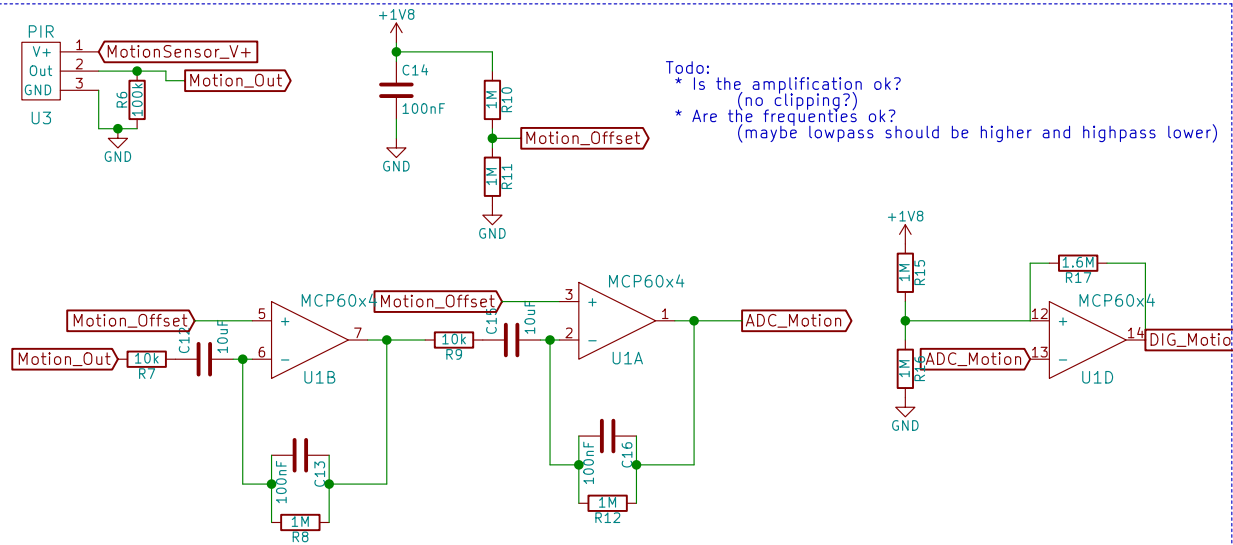
Opamp supply



Motion Sensor Power



Custom Sensor



Amplify the motion output using band amplifiers
fc = 1/(2*Pi*R*C)
A = R_lowpass / R_highpass
The highpass filter is at the input, the lowpass is in the feedback loop

Here:
f_lowpass = 1.6Hz
f_highpass = 1.6Hz
A = 100

Philip Luyckx		
Sheet: /Sensors/		
File: Sensors.sch		
Title: Sensor		
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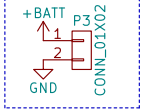
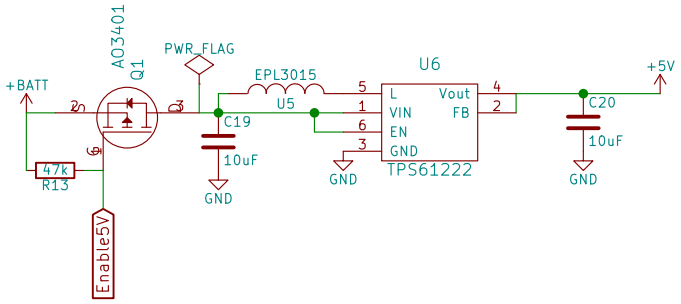
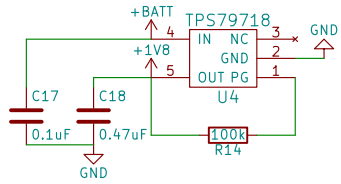
Battery Input



5V Supply



1V8 Supply



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KiCad E.D.A. kicad 4.0.2+e4-622538ubuntu16.04.1-stable		Id: 6/6