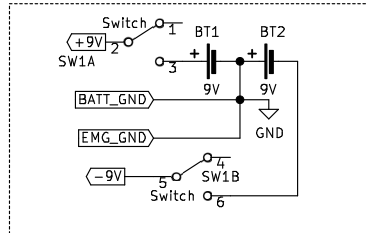
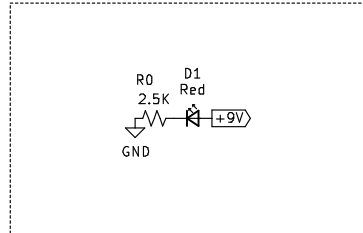


# EMG INSTRUMENTATION (5 CHANNELS)

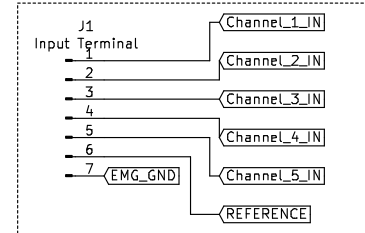
## POWER SUPPLY



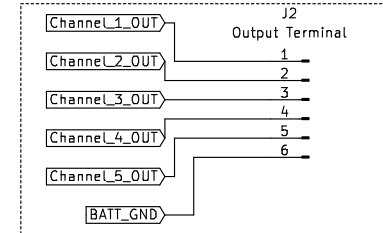
## POWER LED



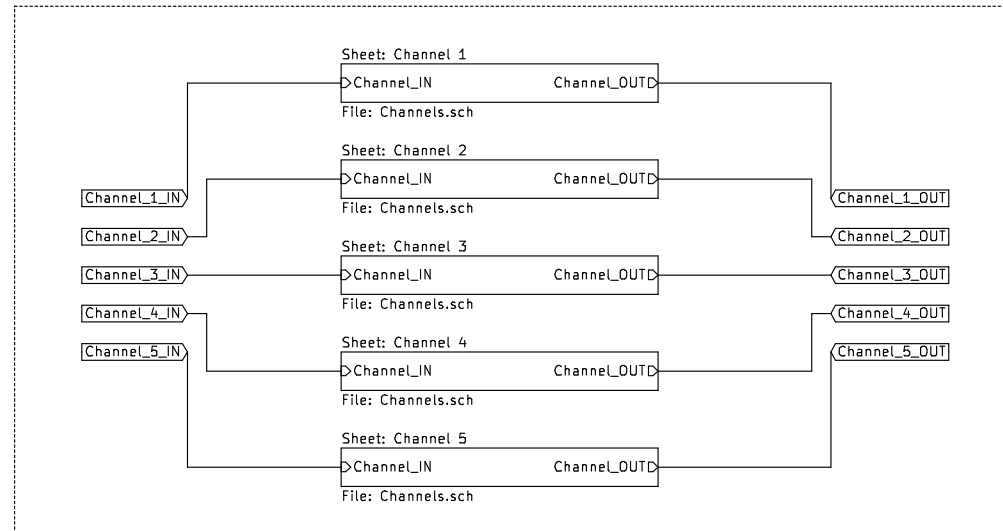
## INPUT



## OUTPUT



## MAIN CIRCUIT



Upendra Subedi  
Sanjay Rijal  
Rhimesh Lwagun  
Rabin Nepal

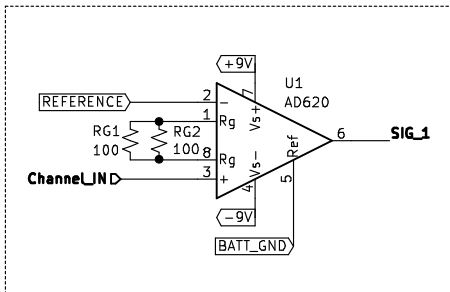
Sheet: /  
File: EMG Instrumentation.sch

**Title: EMG INSTRUMENTATION**

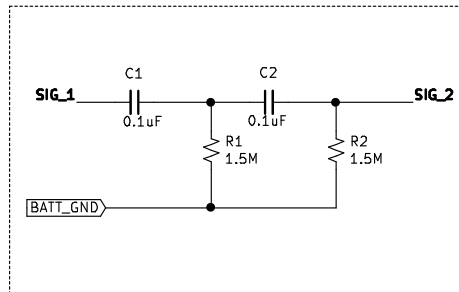
Size: A4 Date: 2020-08-19  
KiCad E.D.A. kicad 5.1.6-c6e7f7d87ubuntu18.04.1

Rev: First  
Id: 1/6

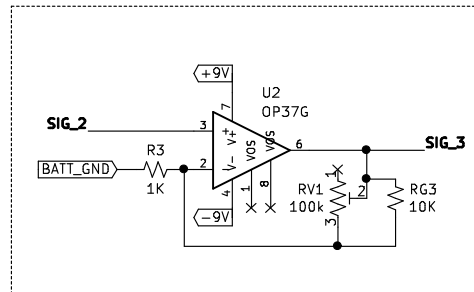
## INSTRUMENTATION AMPLIFIER



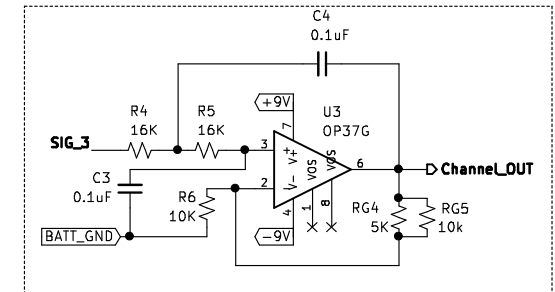
## HIGH PASS FILTER



## AMPLIFIER



## LOW PASS FILTER



Upendra Subedi  
Sanjay Rijal  
Rhimesh Lwagun  
Rabin Nepal

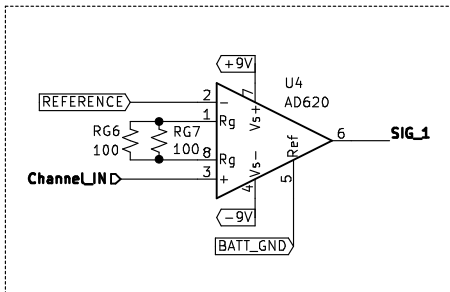
Sheet: /Channel 1/  
File: Channels.sch

**Title: EMG INSTRUMENTATION**

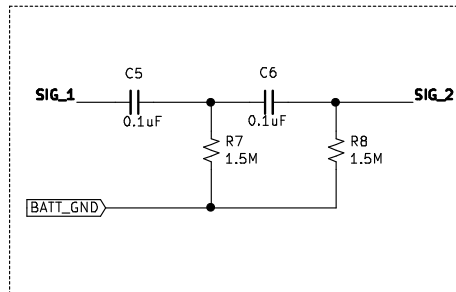
Size: A4 Date: 2020-08-19  
KiCad E.D.A. kicad 5.1.6-c6e7f7d87ubuntu18.04.1

Rev: First  
Id: 2/6

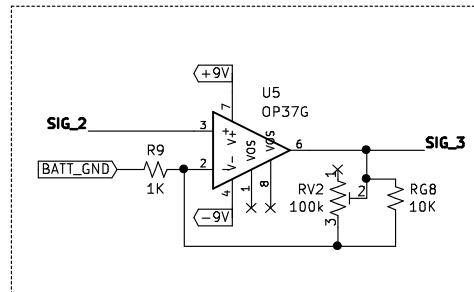
## INSTRUMENTATION AMPLIFIER



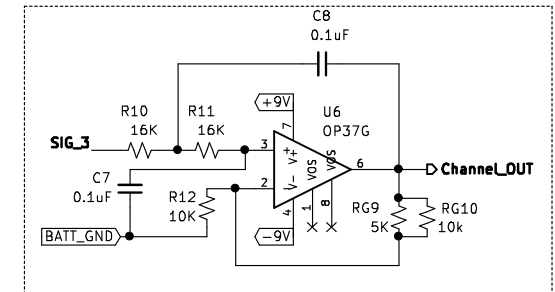
## HIGH PASS FILTER



## AMPLIFIER



## LOW PASS FILTER



Upendra Subedi  
Sanjay Rijal  
Rhimesh Lwagun  
Rabin Nepal

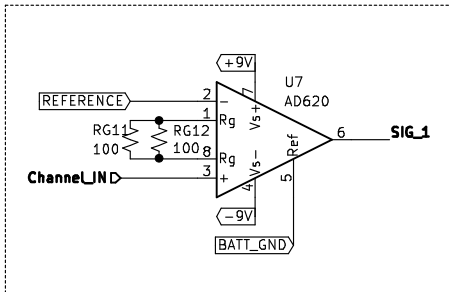
Sheet: /Channel 2/  
File: Channels.sch

**Title: EMG INSTRUMENTATION**

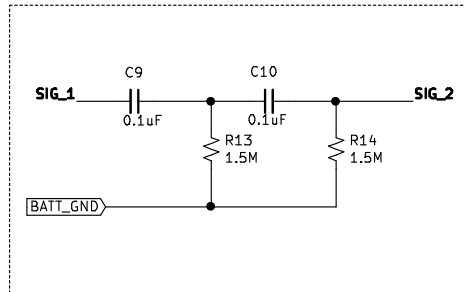
Size: A4 Date: 2020-08-19  
KiCad E.D.A. kicad 5.1.6-c6e7f7d87ubuntu18.04.1

Rev: First  
Id: 3/6

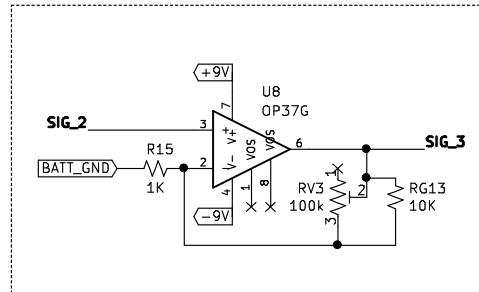
## INSTRUMENTATION AMPLIFIER



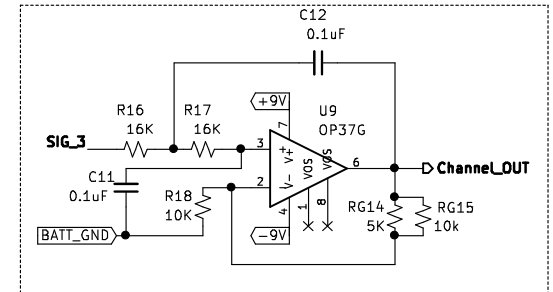
## HIGH PASS FILTER



## AMPLIFIER



## LOW PASS FILTER



Upendra Subedi  
Sanjay Rijal  
Rhimesh Lwagun  
Rabin Nepal

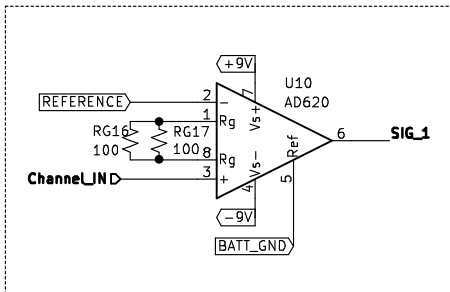
Sheet: /Channel 3/  
File: Channels.sch

**Title: EMG INSTRUMENTATION**

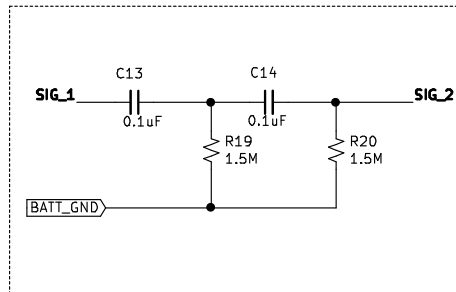
Size: A4 Date: 2020-08-19  
KiCad E.D.A. kicad 5.1.6-c6e7f7d87ubuntu18.04.1

Rev: First  
Id: 4/6

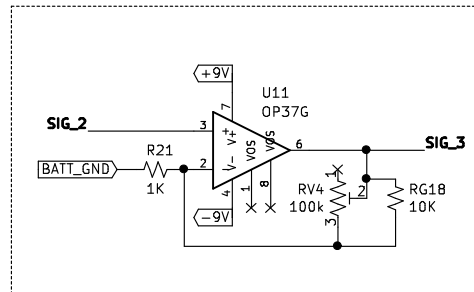
## INSTRUMENTATION AMPLIFIER



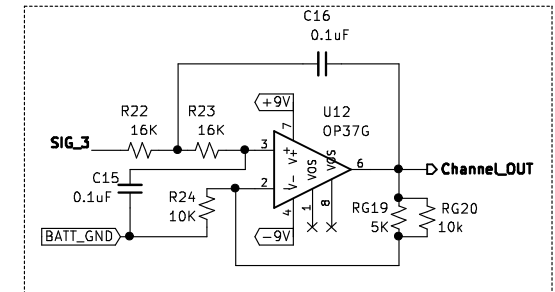
## HIGH PASS FILTER



## AMPLIFIER



## LOW PASS FILTER



Upendra Subedi  
Sanjay Rijal  
Rhimesh Lwagun  
Rabin Nepal

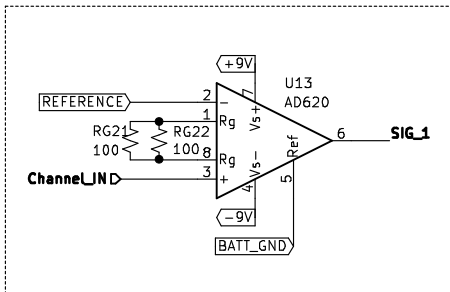
Sheet: /Channel 4/  
File: Channels.sch

**Title: EMG INSTRUMENTATION**

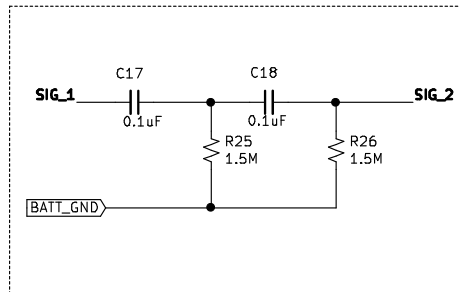
Size: A4 Date: 2020-08-19  
KiCad E.D.A. kicad 5.1.6-c6e7f7d87ubuntu18.04.1

Rev: First  
Id: 5/6

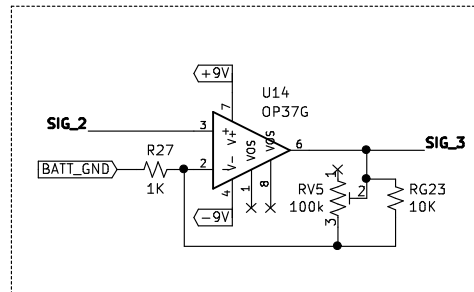
## INSTRUMENTATION AMPLIFIER



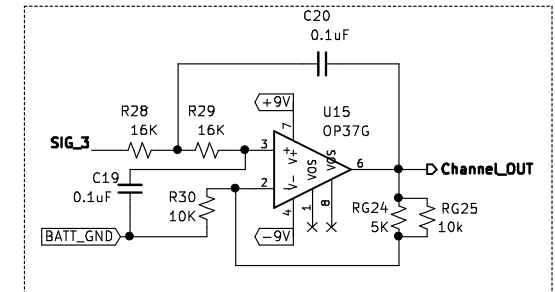
## HIGH PASS FILTER



## AMPLIFIER



## LOW PASS FILTER



Upendra Subedi  
Sanjay Rijal  
Rhimesh Lwagun  
Rabin Nepal

Sheet: /Channel 5/  
File: Channels.sch

**Title: EMG INSTRUMENTATION**

Size: A4 Date: 2020-08-19  
KiCad E.D.A. kicad 5.1.6-c6e7f7d87ubuntu18.04.1

Rev: First  
Id: 6/6