Introduction

Sign language has helped the hearing-impaired communicate for many centuries, way before it was formalized and officially recognized, but this long-standing language of gestures has now been given a 21st-century technological upgrade.

Let's design a smart glove that recognizes hand movements and converts them into the relevant text.

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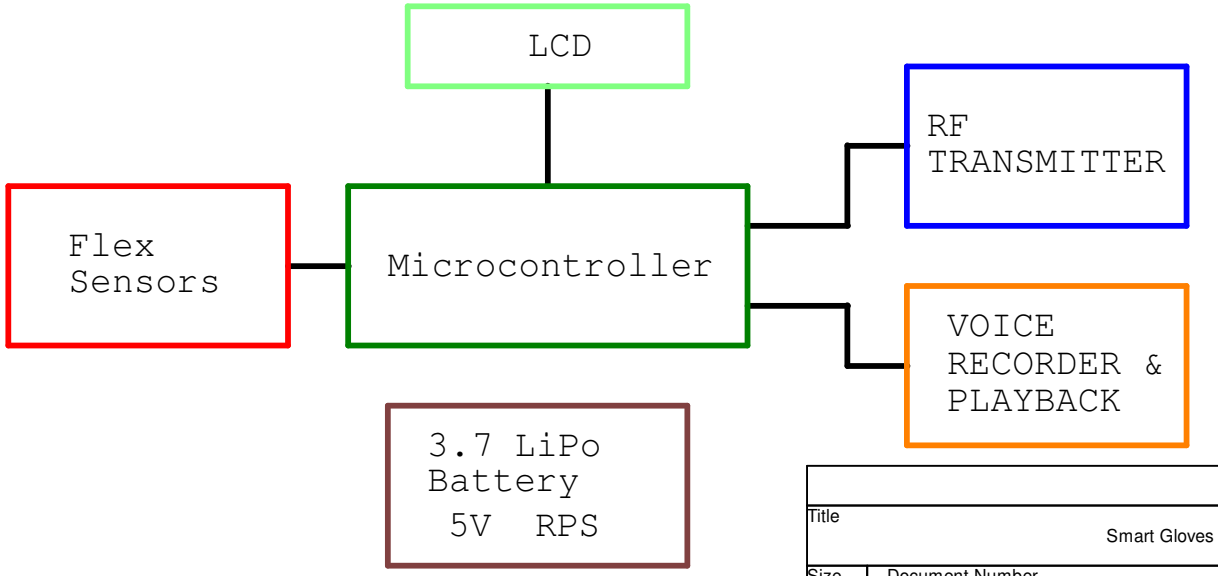
FUNCTIONAL BLOCK DIAGRAM



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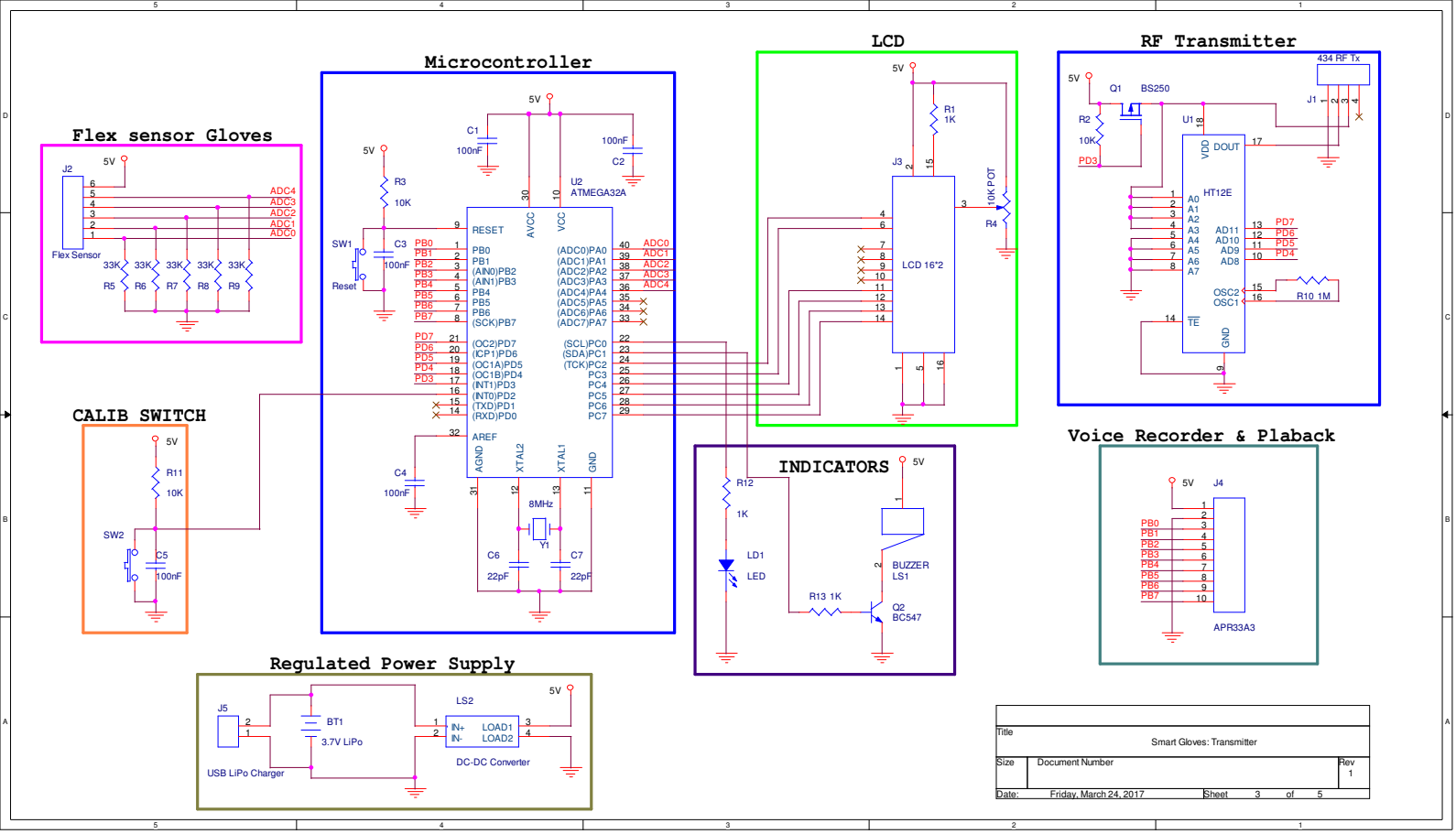

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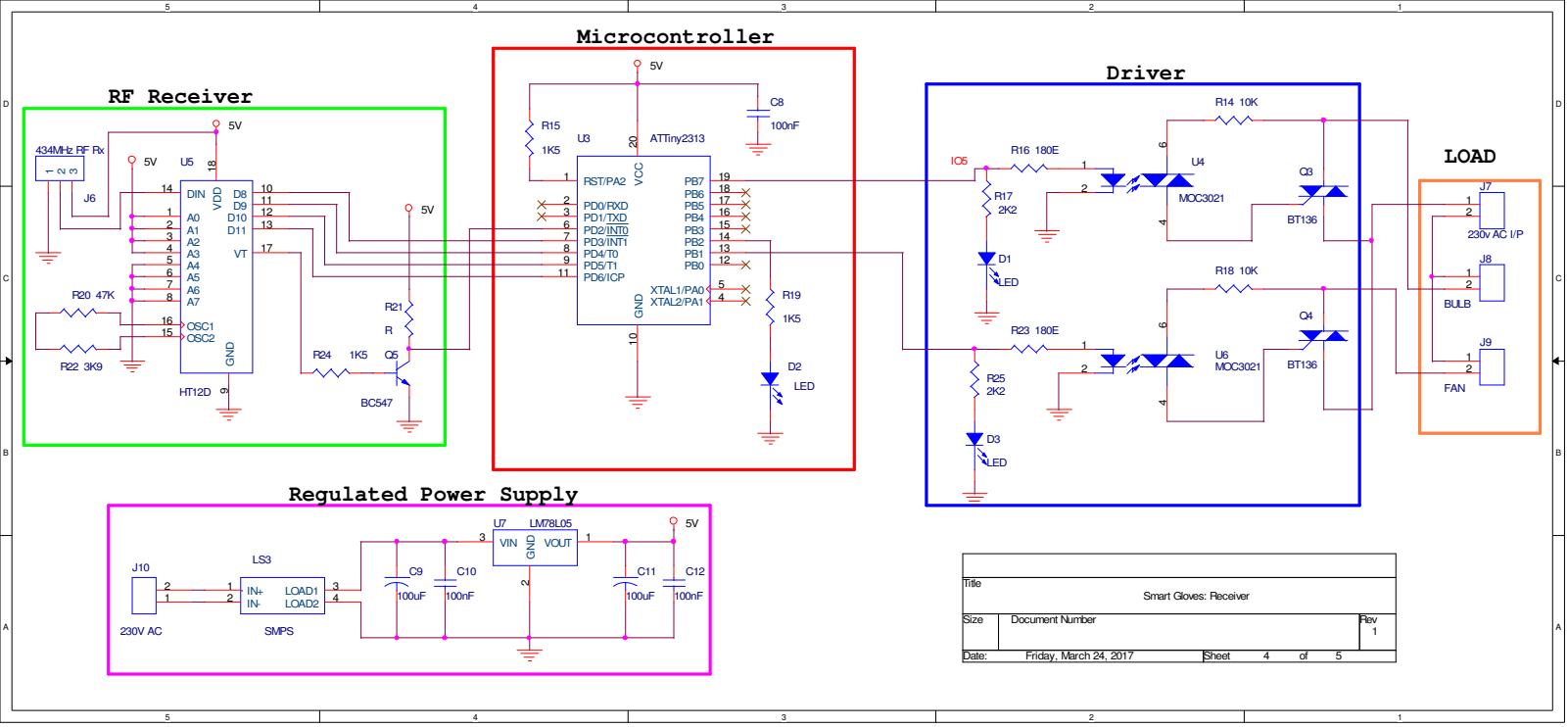
RF Receiver
Microcontroller
Driver
LOAD
Regulated Power Supply
434MHz RF Rx
J6
5V
U5
HT12D
R20 47K
R22 3K9
R21
R
R24 1K5
Q5
BC547
U3
ATTiny2313
R15
1K5
C8
100nF
R19
1K5
D2
LED
IC5
R16 180E
R17
2K2
D1
LED
U4
MOC3021
R14 10K
Q3
BT136
R18 10K
R23 180E
R25
2K2
D3
LED
U6
MOC3021
Q4
BT136
J7
230v AC I/P
J8
BULB
J9
FAN
J10
230V AC
LS3
SMPS
U7
LM78L05
C9
100uF
C10
100nF
C11
100uF
C12
100nF
Title
Smart Gloves: Receiver
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1
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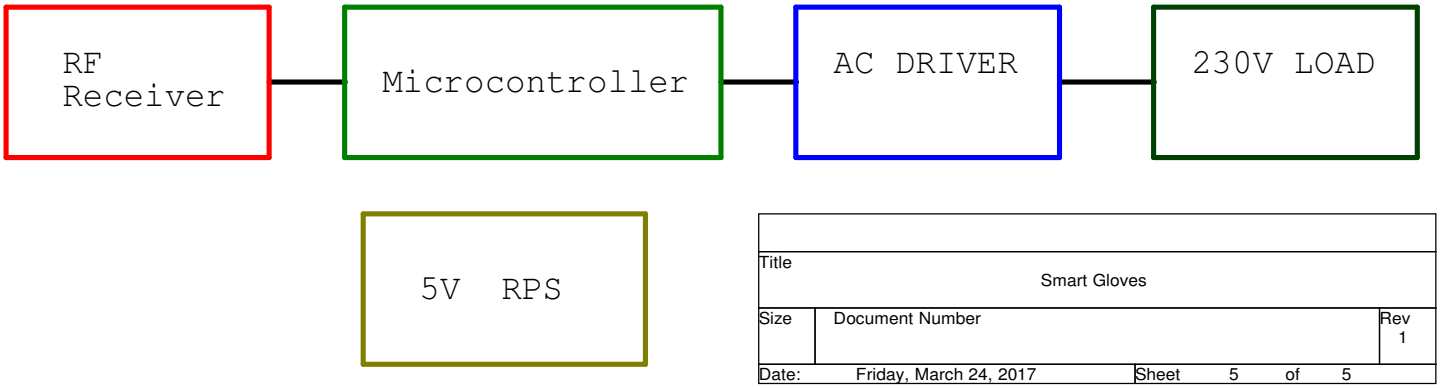
FUNCTIONAL BLOCK DIAGRAM : Receiver



Title	Smart Gloves	
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