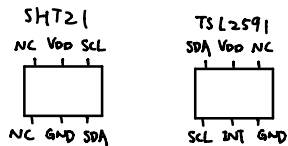


# First draft Week 3 (02/07/2018)

## - sensing block

### on-board sensors



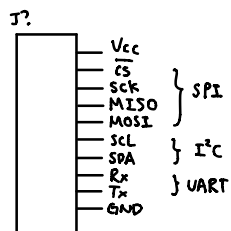
VDD: supplied by rechargeable batteries/ EH sources after a voltage regulator

NC: floating

SCL and SDA: connected to the corresponding pins of MCU (I<sup>2</sup>C)

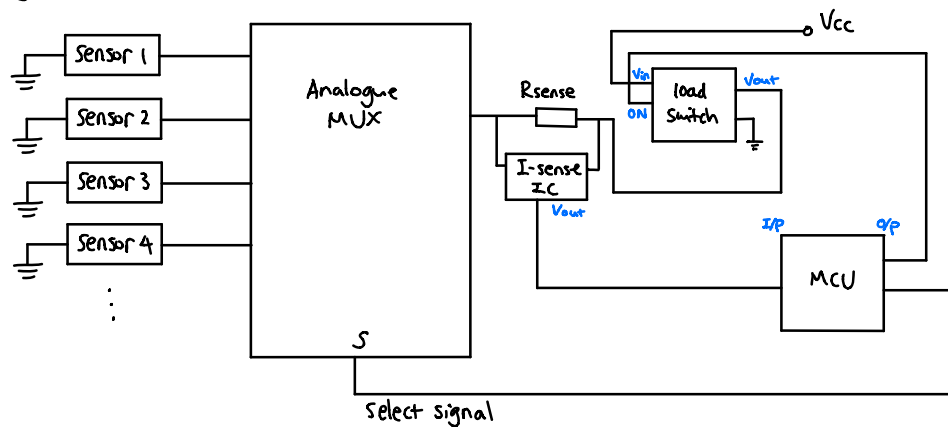
INT (for TSL2591): connected to a digital input pin (for interrupt) of MCU

### external sensors

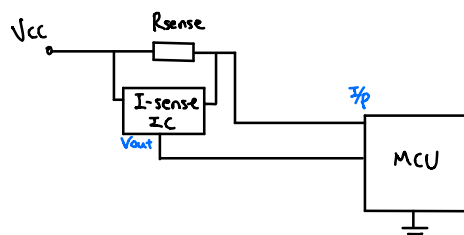


C<sub>zu</sub> needed for load switches are not shown on the diagram

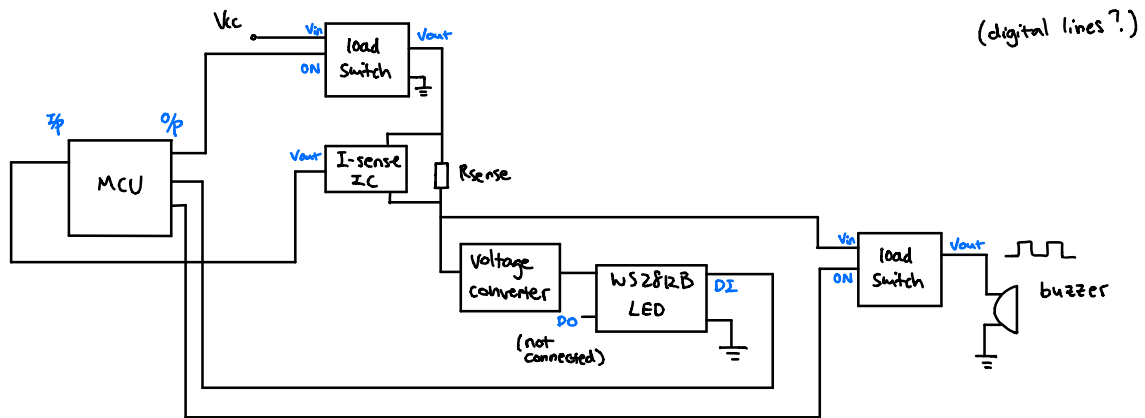
### monitoring circuit



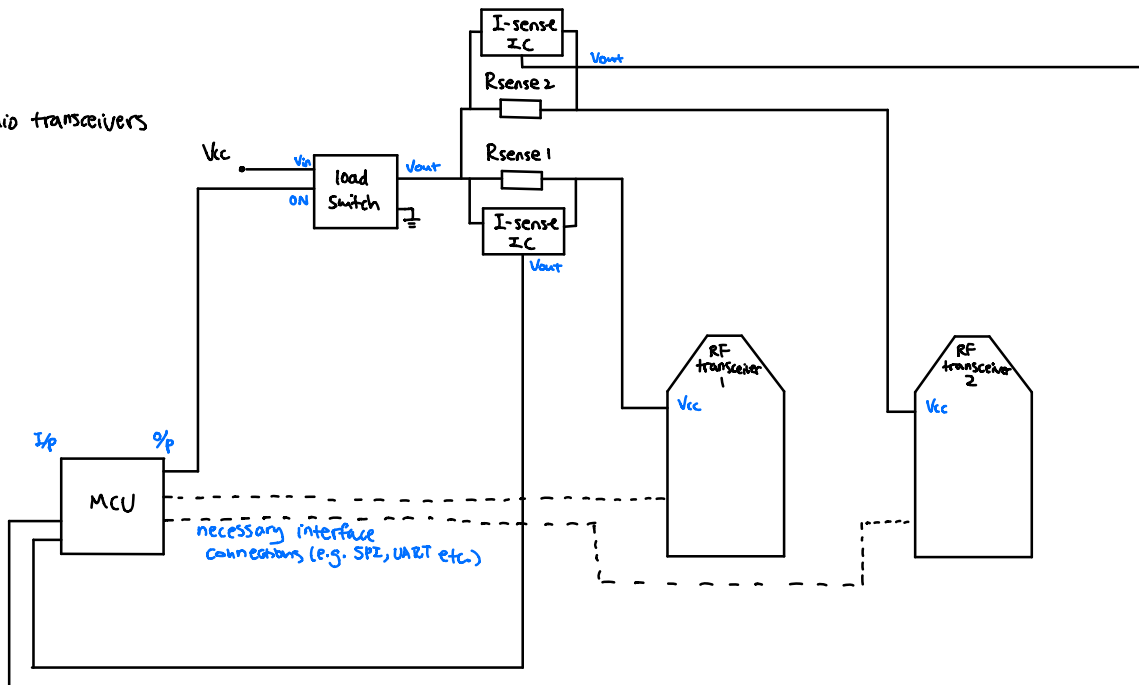
### - MCU



- actuation block

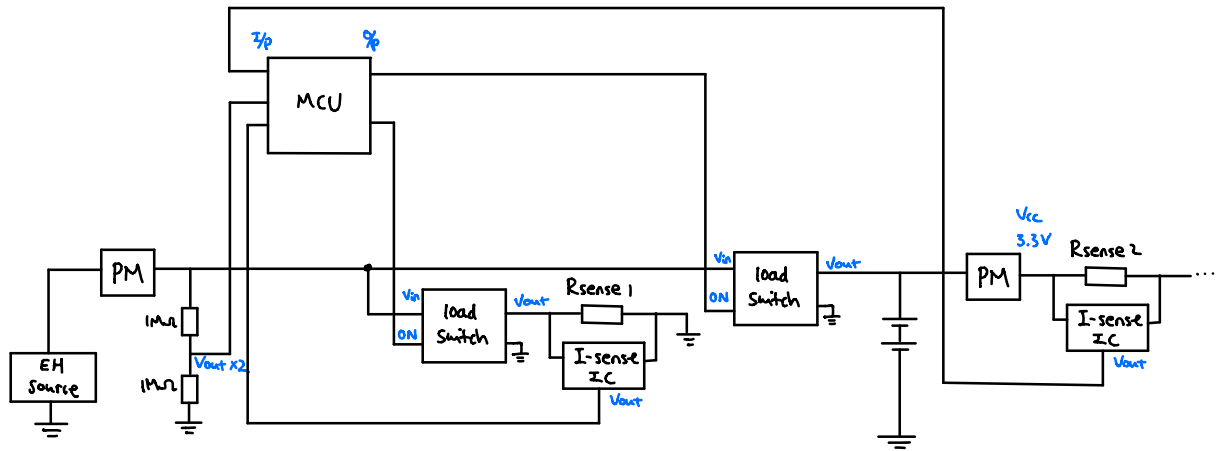


- radio transceivers



- reset button + pin of the board: connected to the reset pins of 2 radio transceivers and the microprocessor

- power writ



possible ways to reduce the number of switches needed

① sensors vs. RF transceivers

