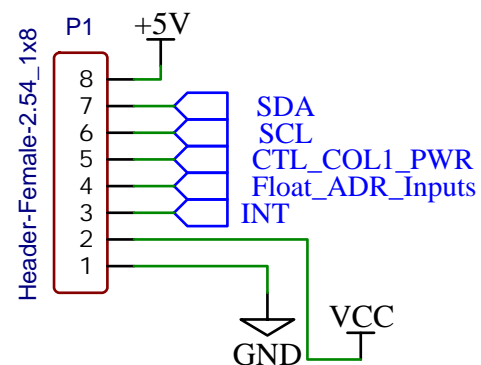
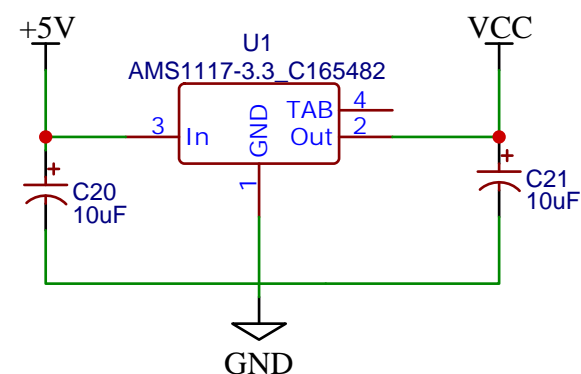


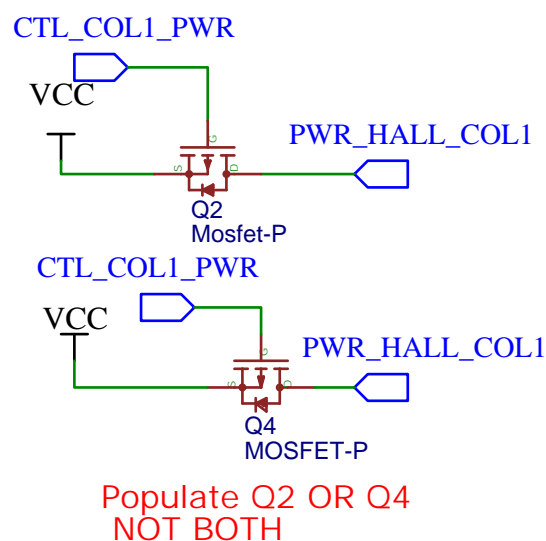
I/O Connector



3.3V Regulator (Optional)

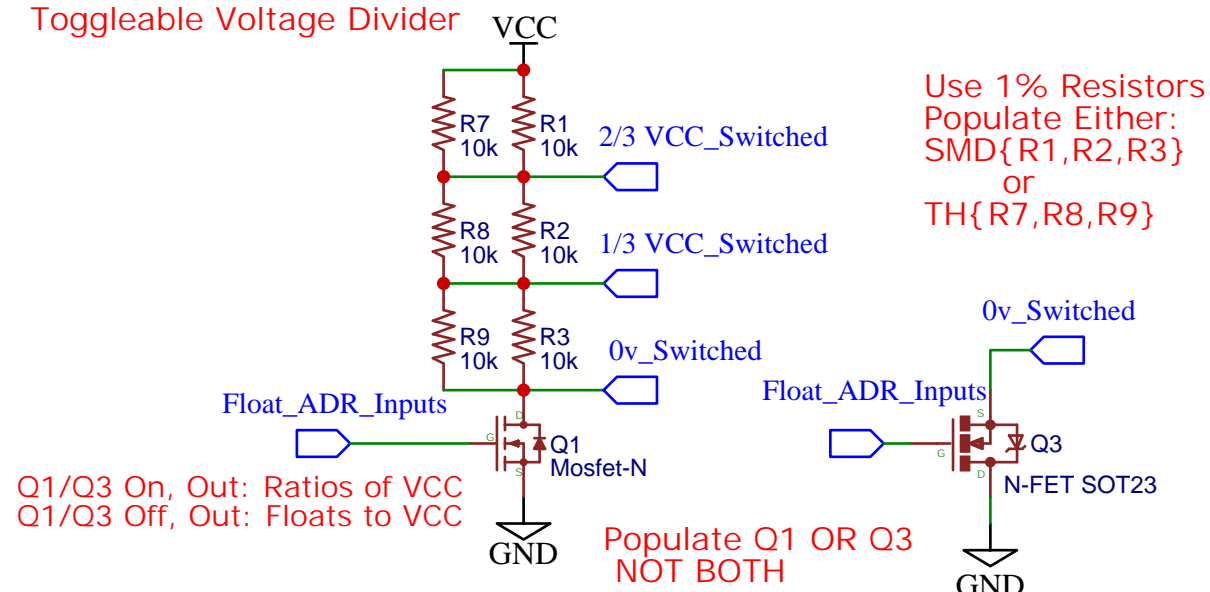


Sensor Power Control

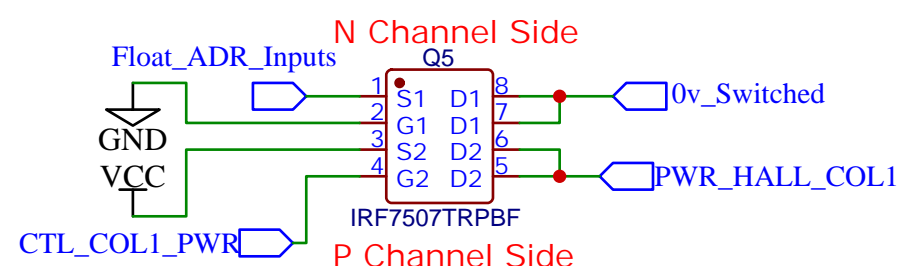


- Address Set Procedure:
- 1) Disable #Float_ADR_Inputs
 - 2) Power up desired column
 - 3) Write eeprom address value
 - 4) Power off Column
 - 5) Rep. 2-4 for other columns
 - 6) Enable #Float_ADR_Inputs
 - 7) Power up all columns
 - 8) Get Data

Toggleable Voltage Divider



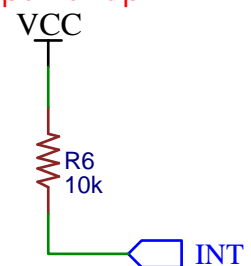
Unified Mosfet (Optional)



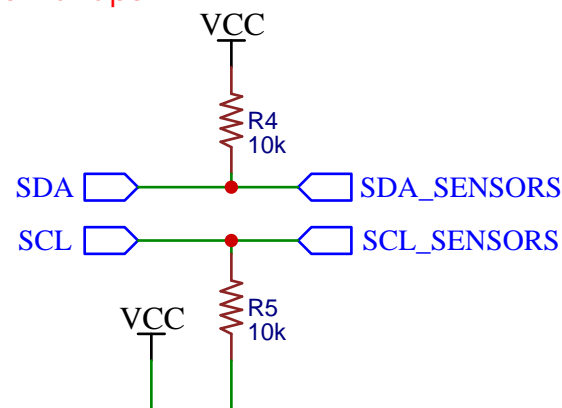
All FETS Min 2.5v Logic Level Vth
Prefer Low RDSON as each Hall Sensor requires 7 mA Peak
(IRF7507TRPBF available at digikey)

Build Notes:
Populate Q1 or Q3, not both! & Populate Q2 or Q4, not both!
OR ONLY POPULATE Q5
Populate {R1,R2,R3} or {R7,R8,R9}

Interrupt Pullup

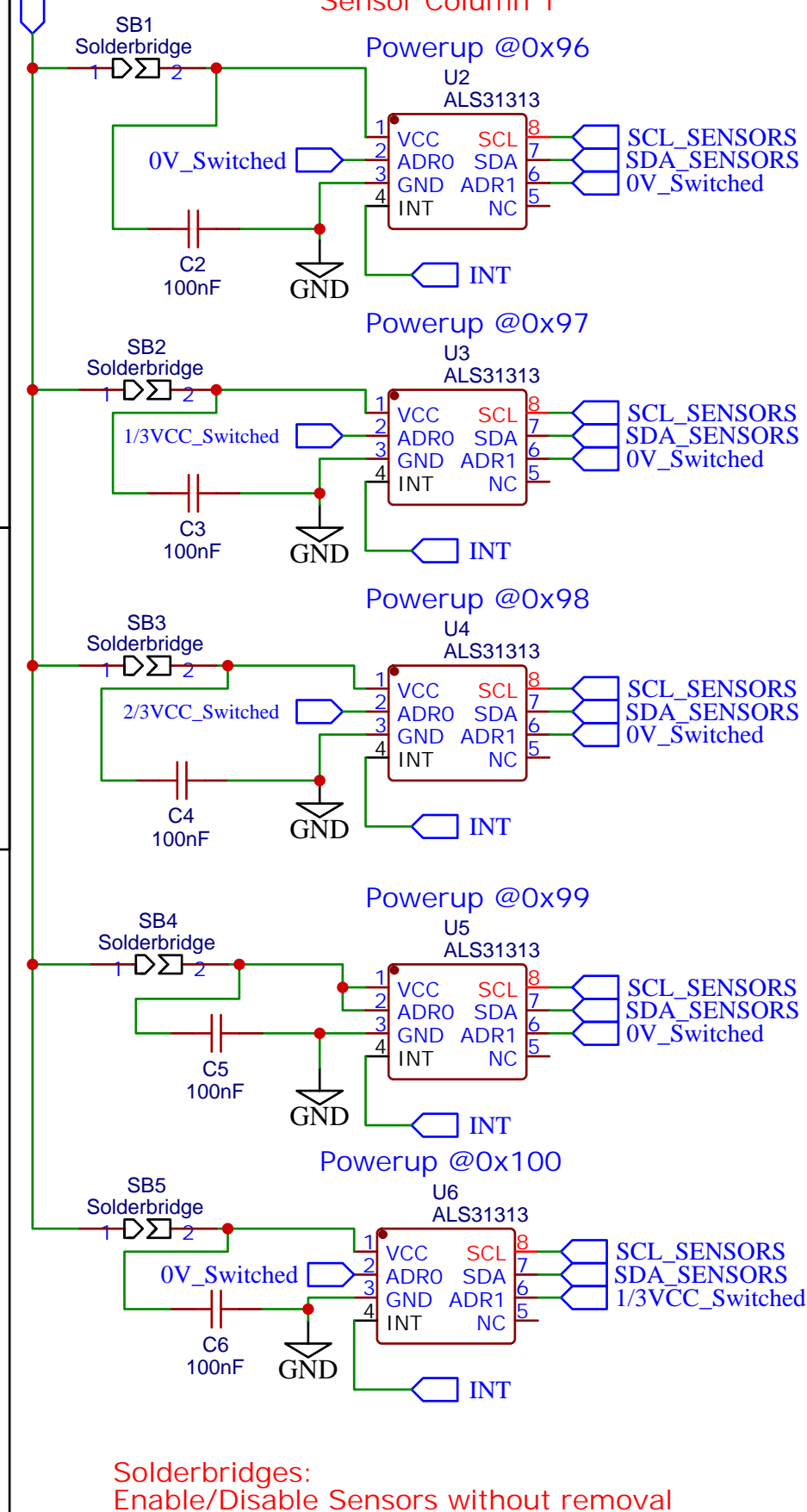


I2C Pullups



PWR_HALL_COL1

Sensor Column 1



TITLE: G15 HALL Sensor POC Board

REV: 1.01

EasyEDA

Company: ECE4600 G15

Sheet: 1/1

Date: 2021-10-09 Drawn By: David Stewart