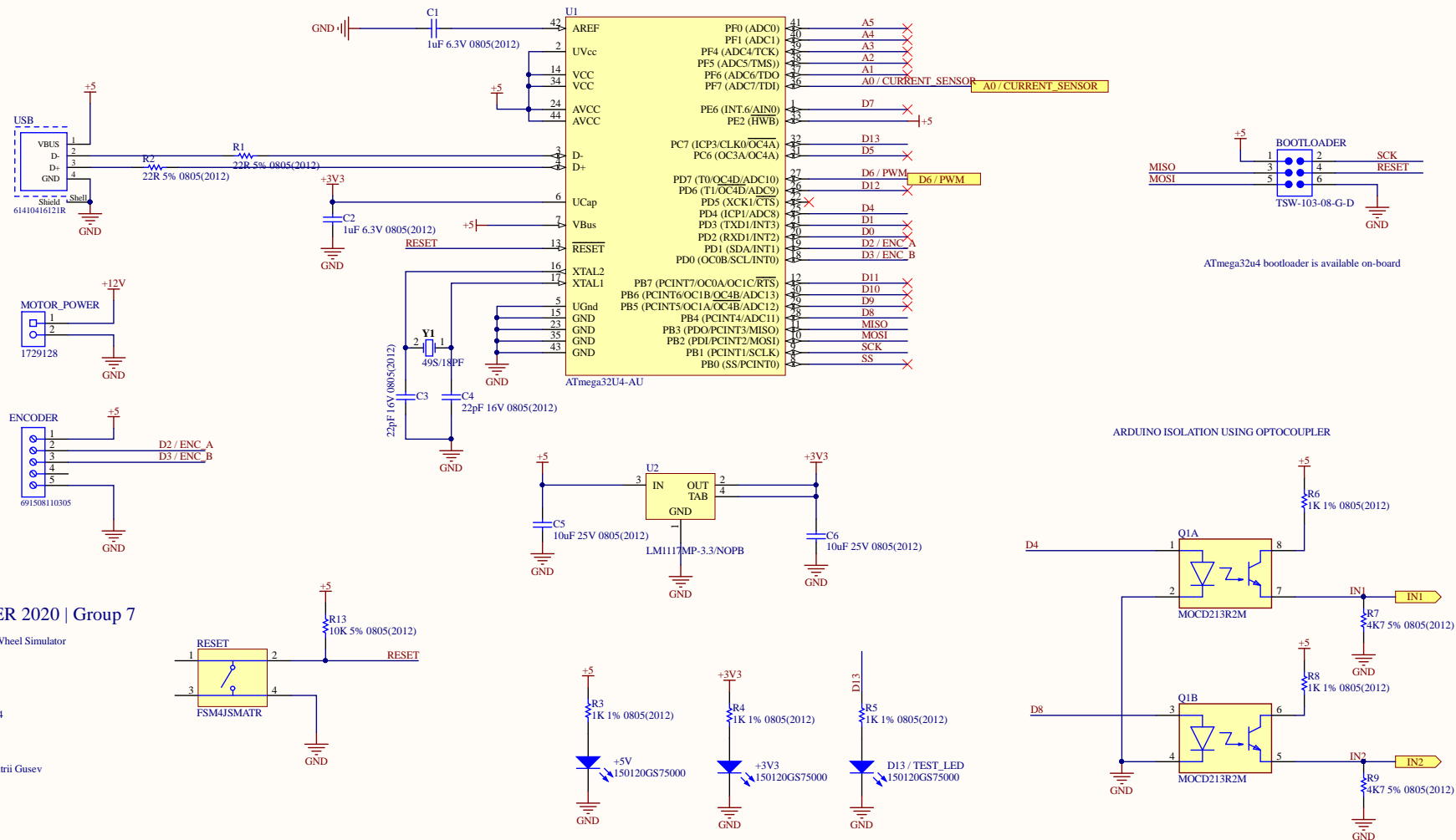


MAIN CONTROLLER | ATmega32u4



MSE312 SUMMER 2020 | Group 7

Project: Open-Source Steering Wheel Simulator

Project Authors:

Dmitrii Gusev, 301297008

Harsimranjeet Singh, 301289434

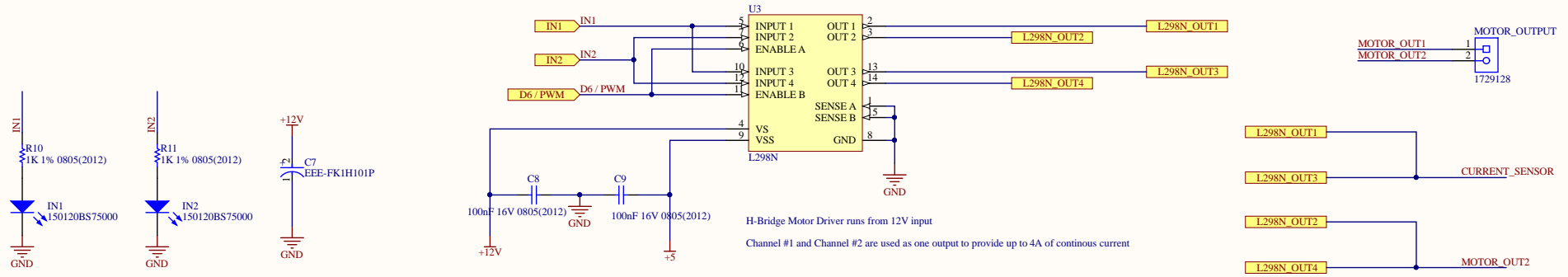
Aldiyar Mataibay, 301326130

Electrical design & PCB by Dmitrii Gusev

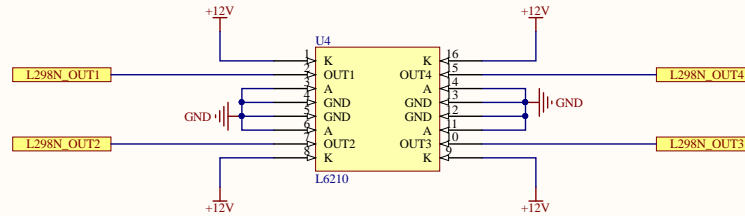
REFERENCE DESIGN: ADAFRUIT ITSYBITSY 32U4 -> USE ADAFRUIT 5V/16Mhz BOOTLOADER FOR CODE COMPATIBILITY

Title MSE312 GROUP 7 STEERING SIMULATOR ATmega32u4		
Size B	Number PAGE 1/1	Revision Rev. A
Date: 28-Jul-20	Sheet 1 of 2	Drawn By: Dmitrii Gusev
File: C:\Users\...MSE312_SIMRACER_SchDoc\		

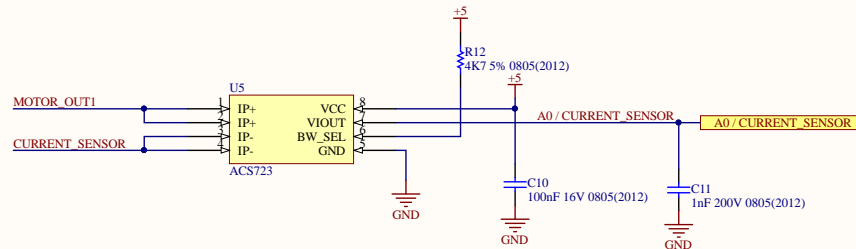
H-BRIDGE MOTOR DRIVER | L298N



DUAL SHOTTKY DIODE BRIDGE | L6210



CURRENT SENSOR FOR FEEDBACK | ACS723



Current sensor ACS723 runs in 20KHz "low-noise" mode

Output: analog signal to port A0

Maximum sensed current: 5A

Sensing resolution: 400mV/A

Title		
MSE312 GROUP 7 STEERING SIMULATOR L298N		
Size	Number	Revision
B	PAGE 1/1	Rev. A
Date:	28-Jul-20	Sheet 2 of 2
File:	C:\Users\...L298N.SchDoc	Drawn By: Dmitrii Gusev

