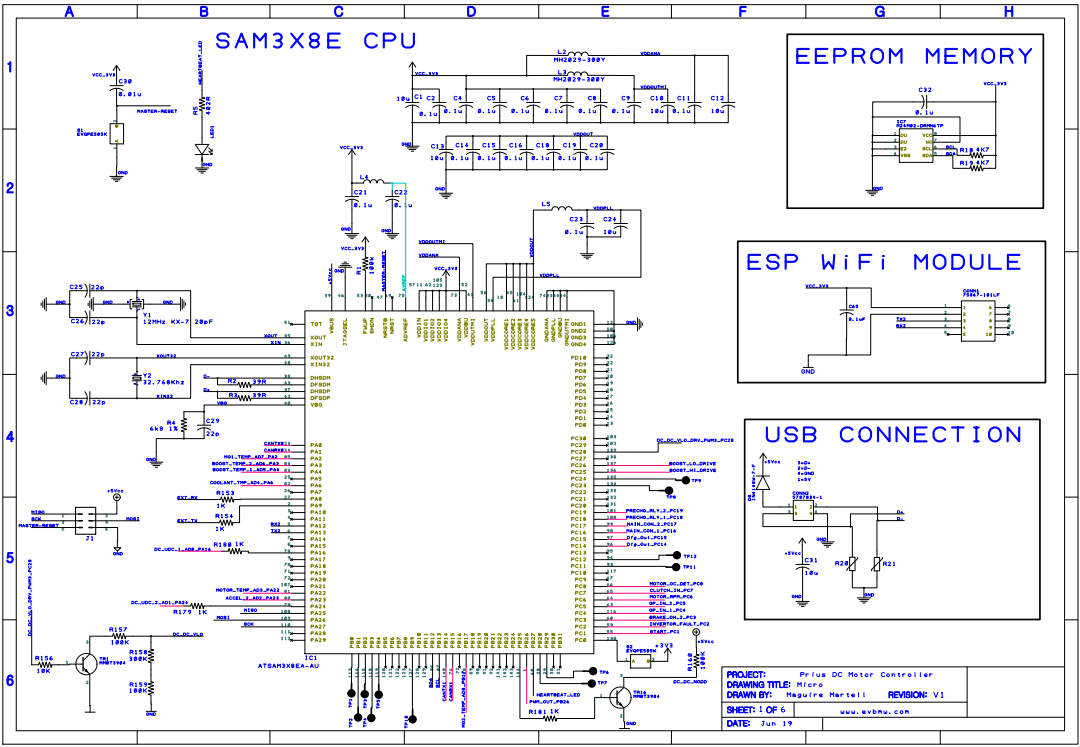
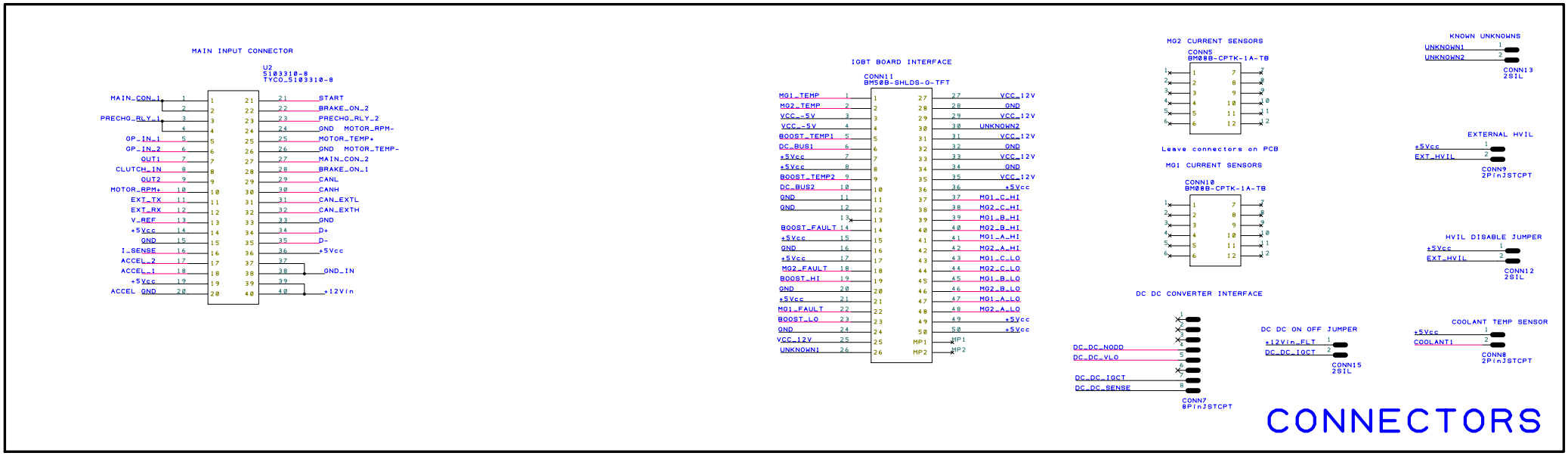
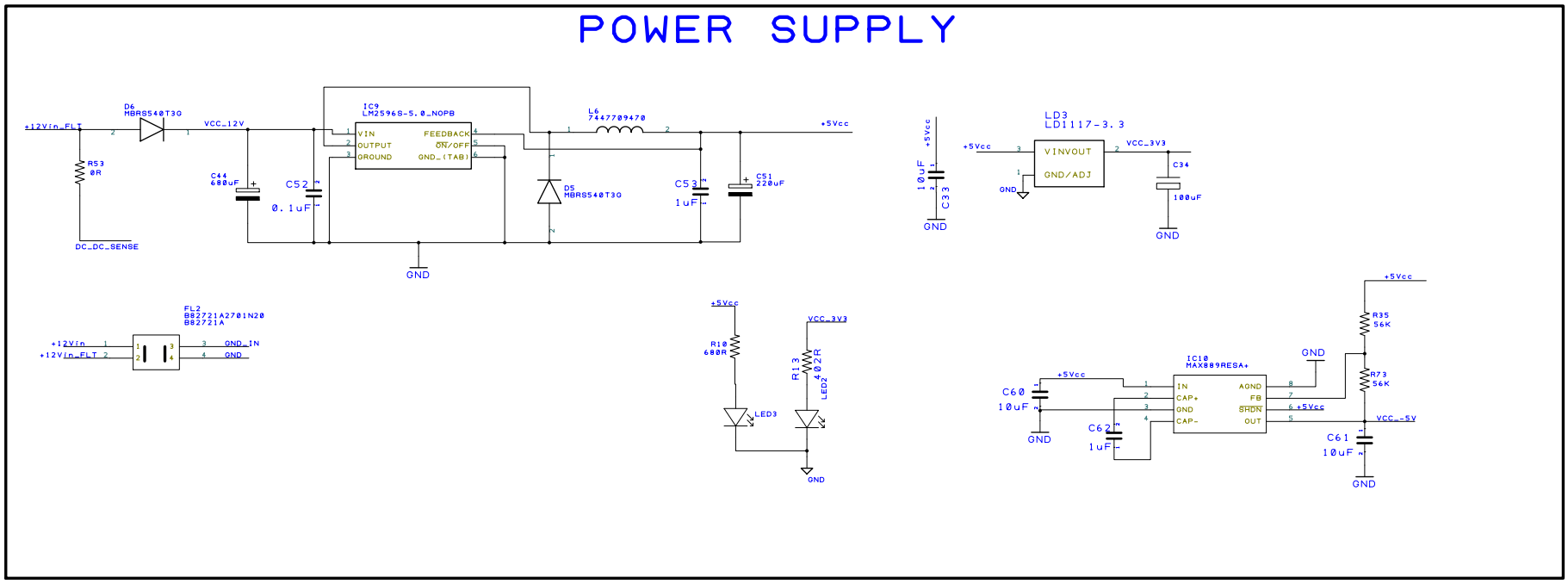
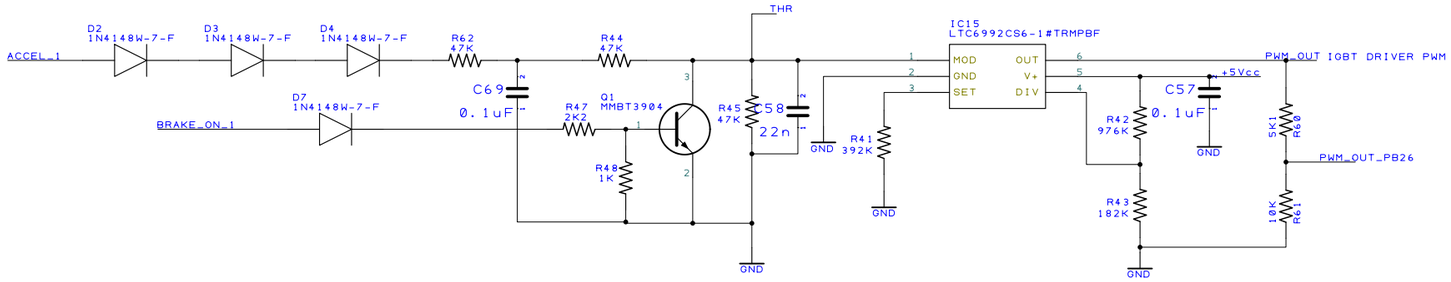

SAM3X8E CPU
EEPROM MEMORY
ESP WiFi MODULE
USB CONNECTION
ATSAM3X8EA-AU
PROJECT: Prius DC Motor Controller
DRAWING TITLE: Micro
DRAWN BY: Maguire Martell
REVISION: V1
SHEET: 1 OF 6
www.evbmw.com
DATE: Jun 19



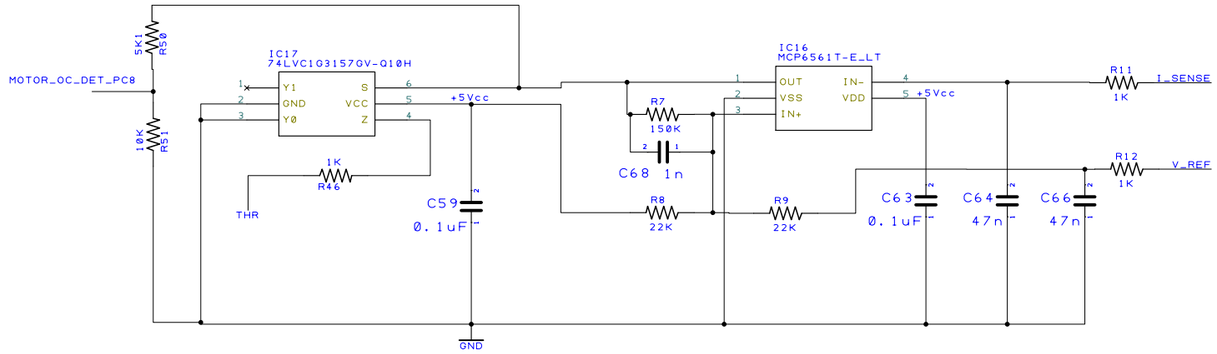


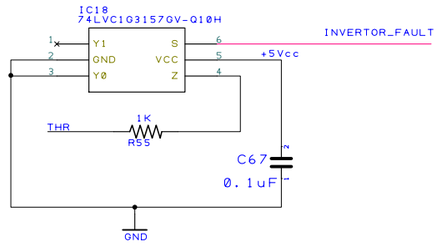
PROJECT:	Prius DC Motor Controller
DRAWING TITLE:	Connectors and PSU
DRAWN BY:	Maguire Martell
REVISION:	V1
SHEET:	2 OF 6
	www.evbmw.com
DATE:	Jun 19

PWM GENERATOR



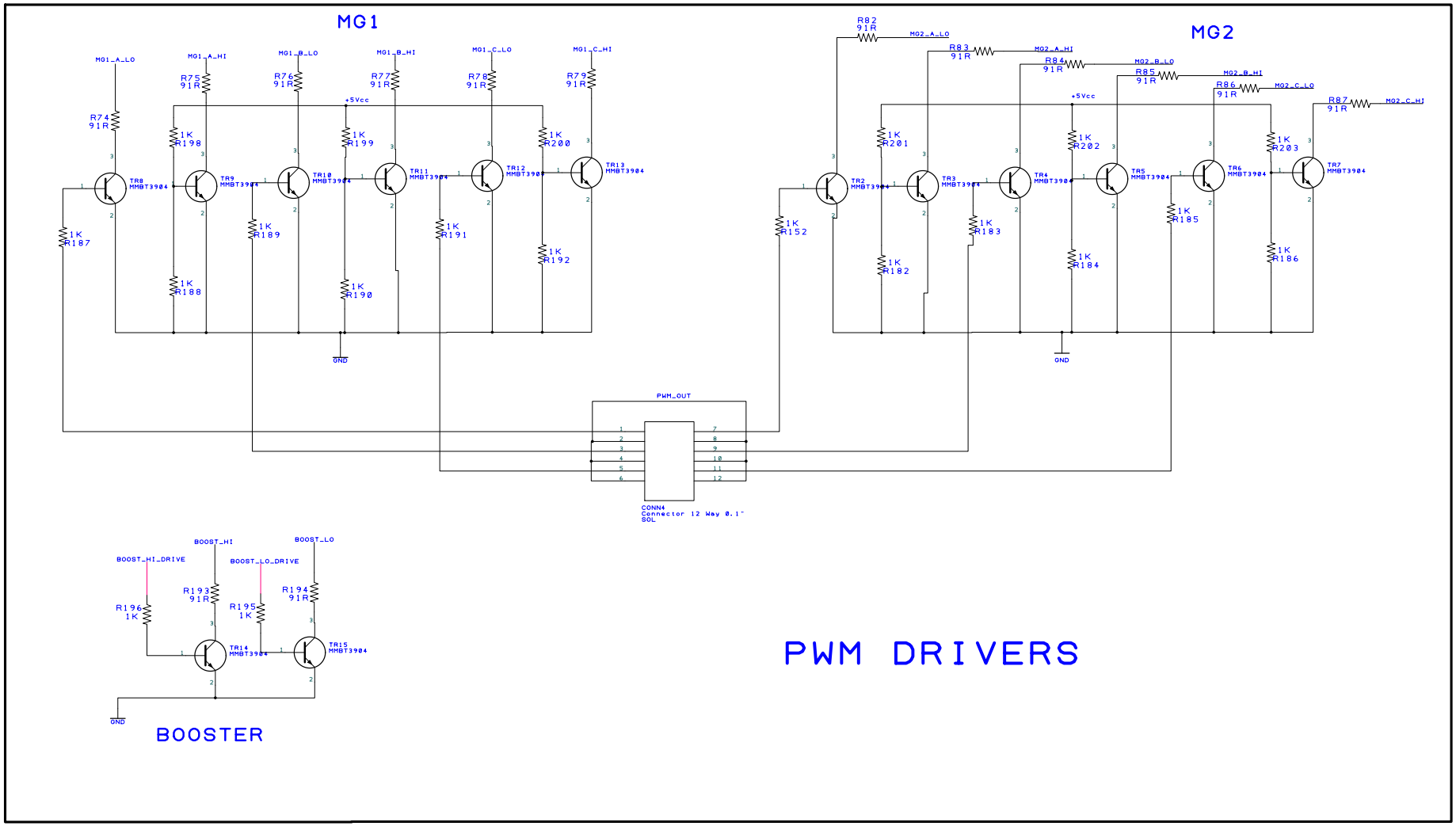
OVERCURRENT PROTECTION





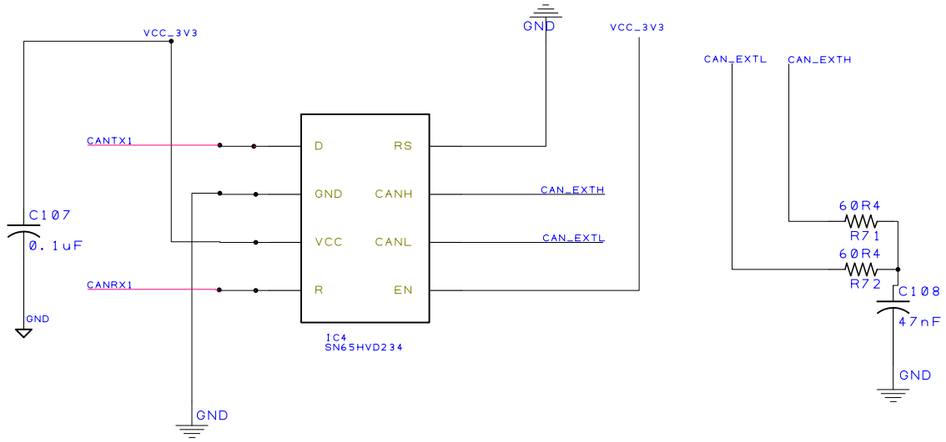
INVERTOR FAULT SHUTDOWN

PROJECT:	Prius DC Motor Controller
DRAWING TITLE:	PWM Generation
DRAWN BY:	Maguire Martell
REVISION:	V1
SHEET:	3 **OF** 6
	www.evbmw.com
DATE:	Jun 19

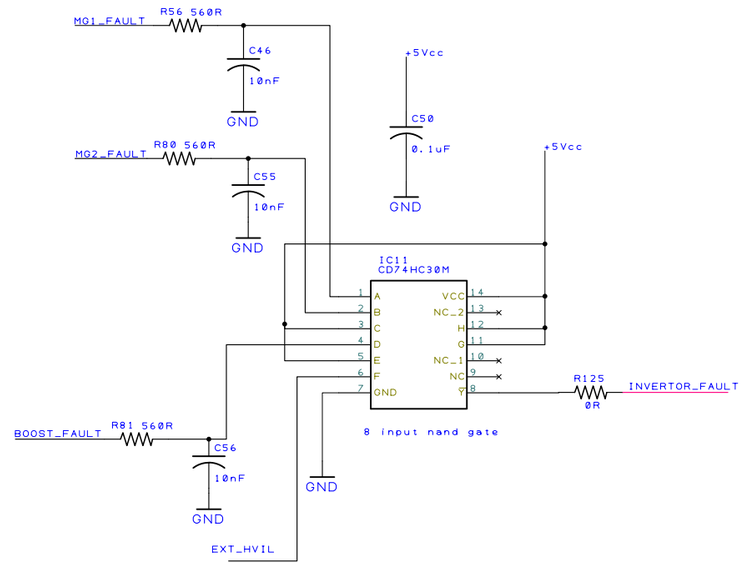


PROJECT:	Prius DC Controller
DRAWING TITLE:	PWM Drivers
DRAWN BY:	Maguire Martell
REVISION:	V1
SHEET: 4 OF 6	www.evbmw.com
DATE: Jun 19	

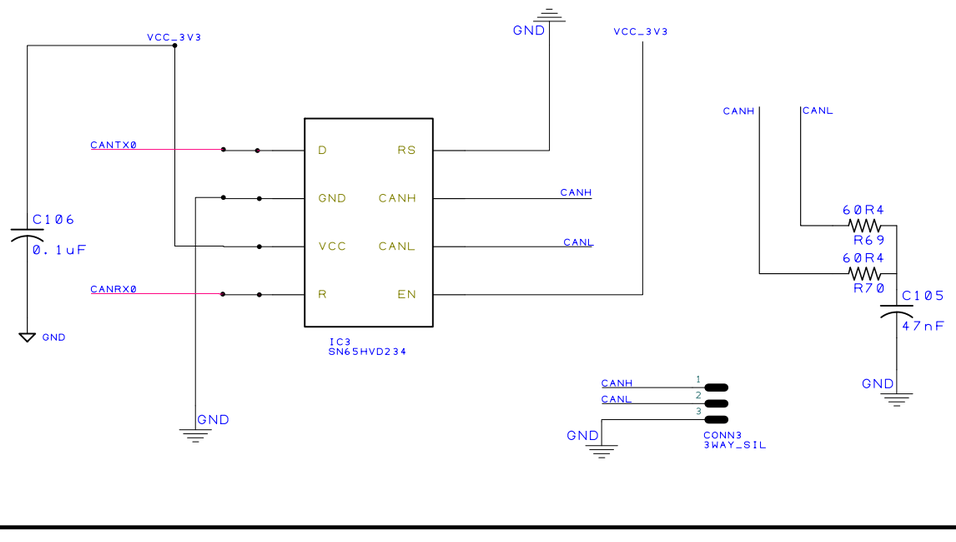
CAN BUS 1



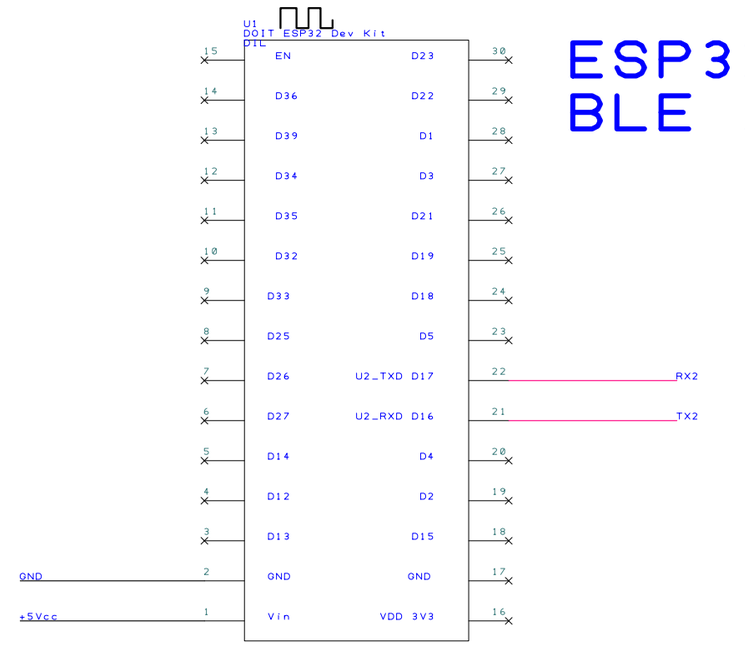
LOGIC SECTION



CAN BUS 2

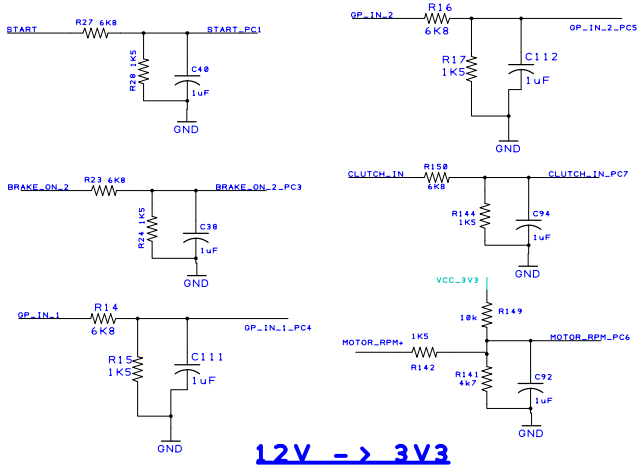


ESP32 BLE / WIFI

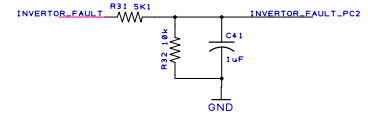


PROJECT:	Prius DC Controller
DRAWING TITLE:	Logic and CAN
DRAWN BY:	Maguire Martell **REVISION:** V1
SHEET: 5 **OF** 6	www.evbmw.com
DATE: Jun 19	

12V DIGITAL INPUTS

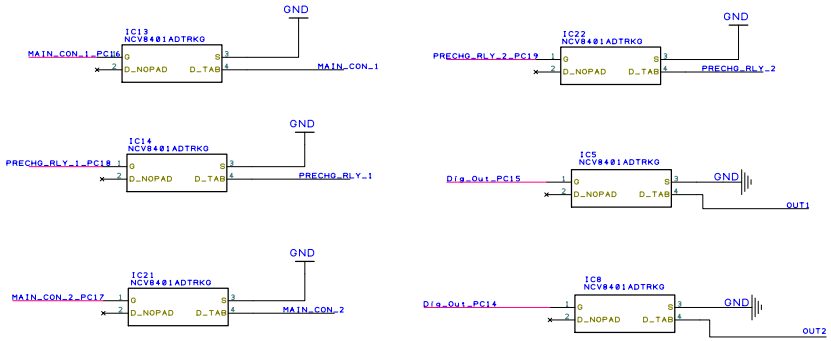


5V INTERNAL DI

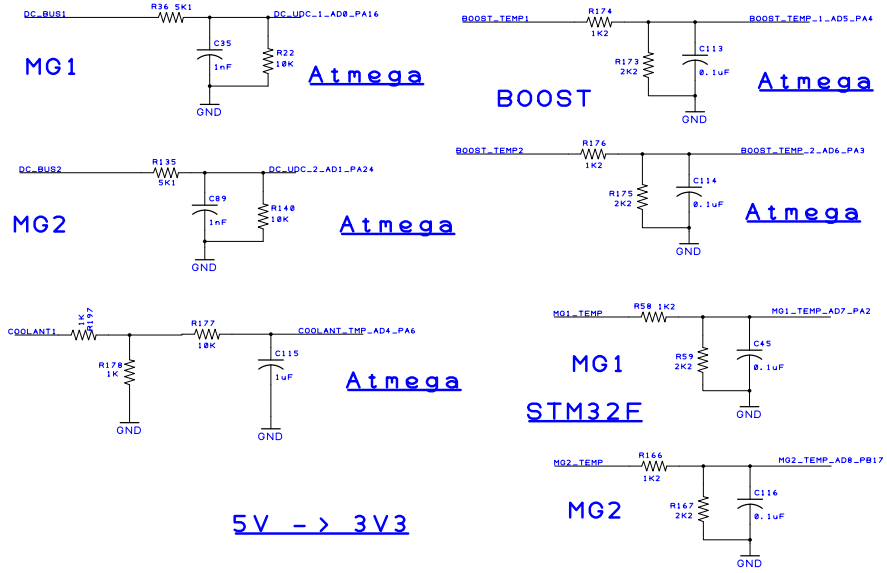


DIGITAL OUTPUTS

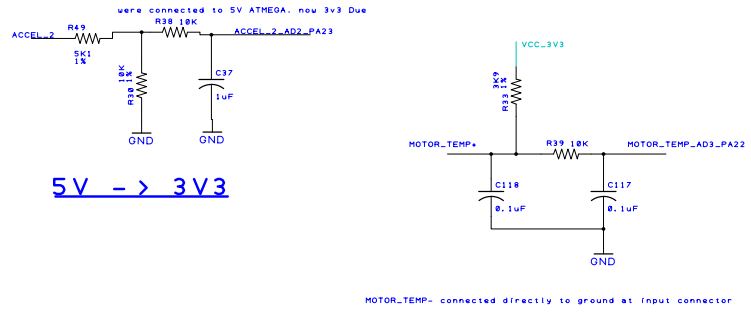
3V3 -> 12V



INTERNAL ANALOG INPUTS



EXTERNAL ANALOG INPUTS



PROJECT:	Prius DC Controller
DRAWING TITLE:	Inputs and Outputs
DRAWN BY:	Maguire Martell
REVISION:	V1
SHEET:	6 **OF** 6
	www.evbmw.com
DATE:	Jun 19