Sheet: Microcontroller

File: Microcontroller.sch

Sheet: Sensors

File: Sensors.sch

Sheet: Actuators

File: Actuators.sch

Sheet: Peripheral

File: Peripheral.sch

Pufferfish

Sheet: /
File: Pufferfish-Controller-1.sch

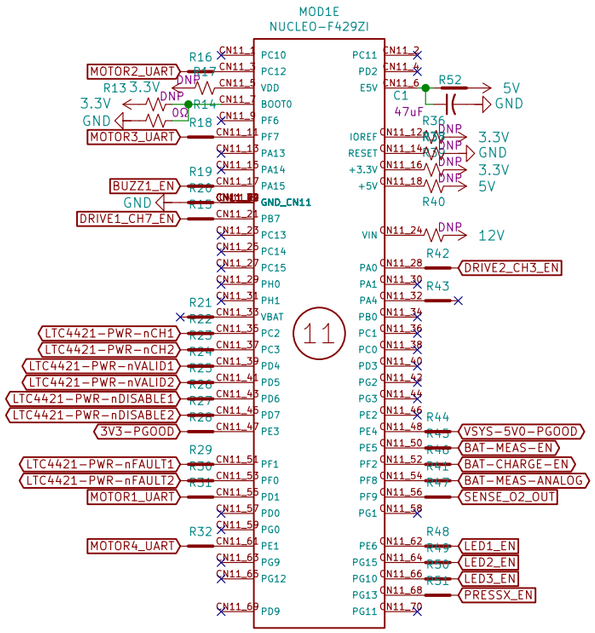
Chris3Arcadia

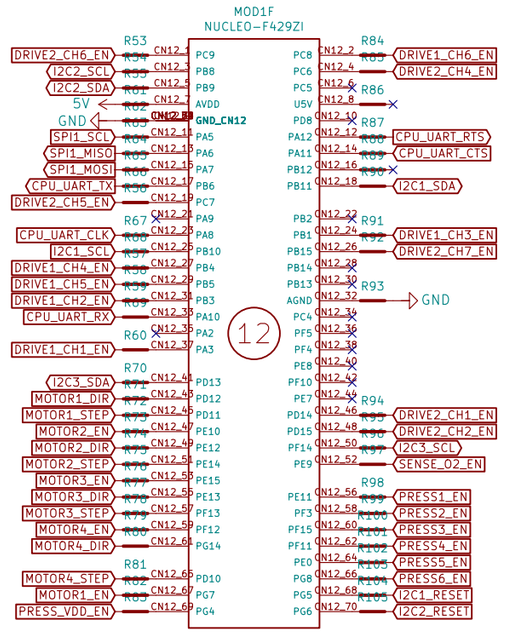
Title: Pufferfish Controller

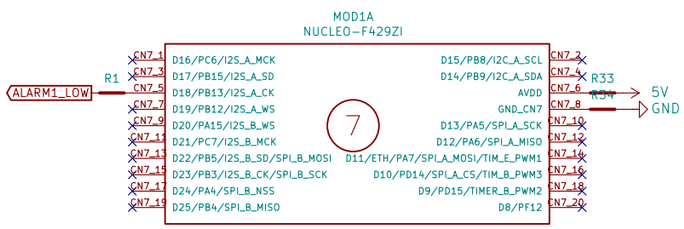
Size: A4 | Date: 2020-06-03 | **Rev: 1.0**

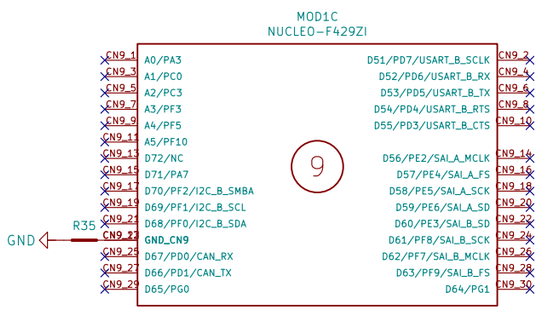
KiCad E.D.A. kicad (5.1.5-0-10_14) | Id: 1/5

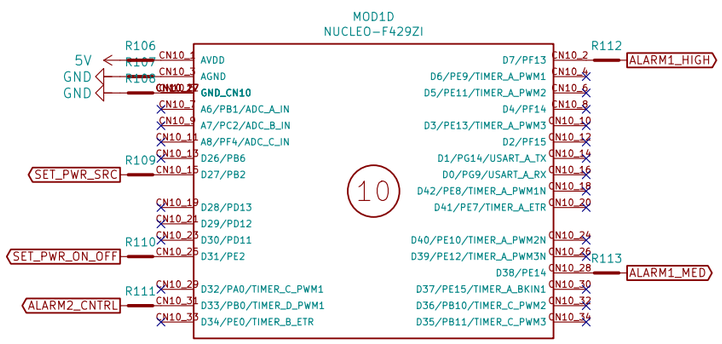
Microcontroller Module

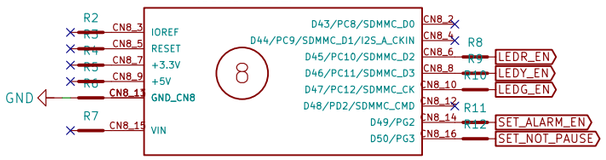












Pufferfish

Sheet: /Microcontroller/
File: Microcontroller.sch

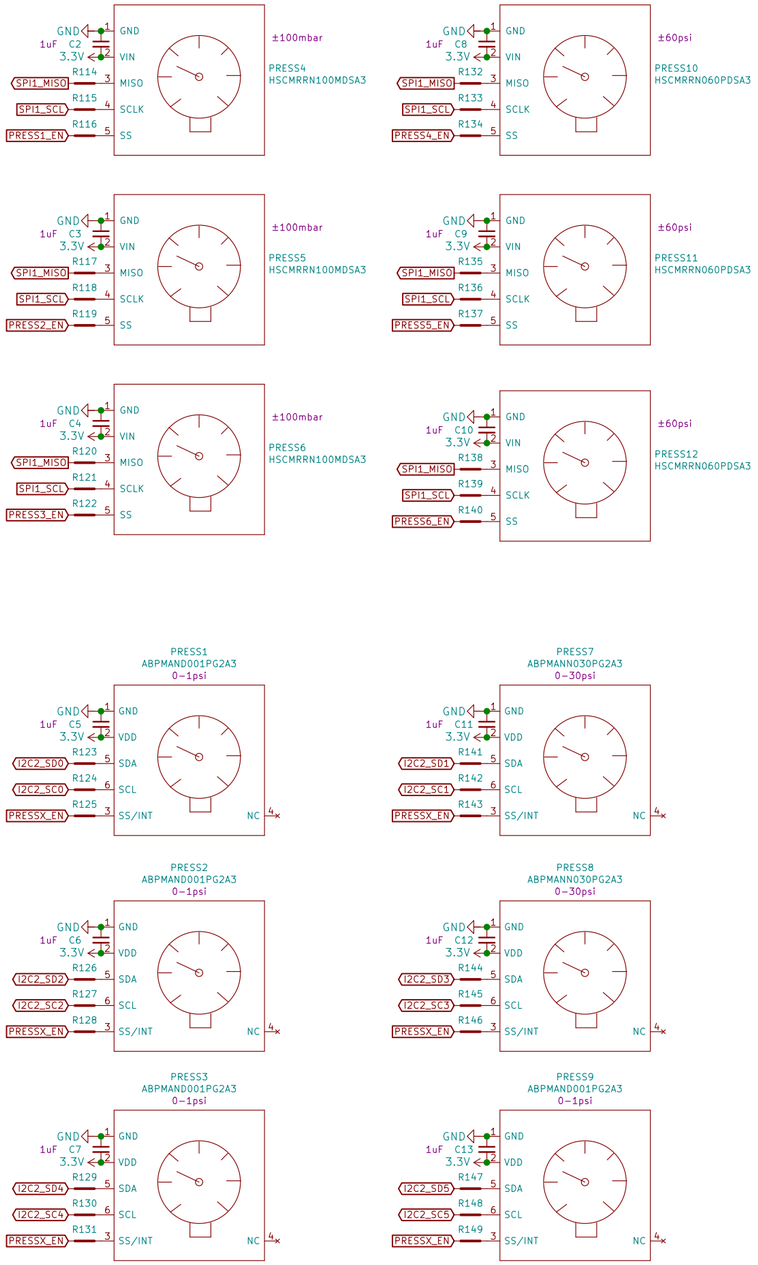
Chris3Arcadia

Title: Pufferfish Controller

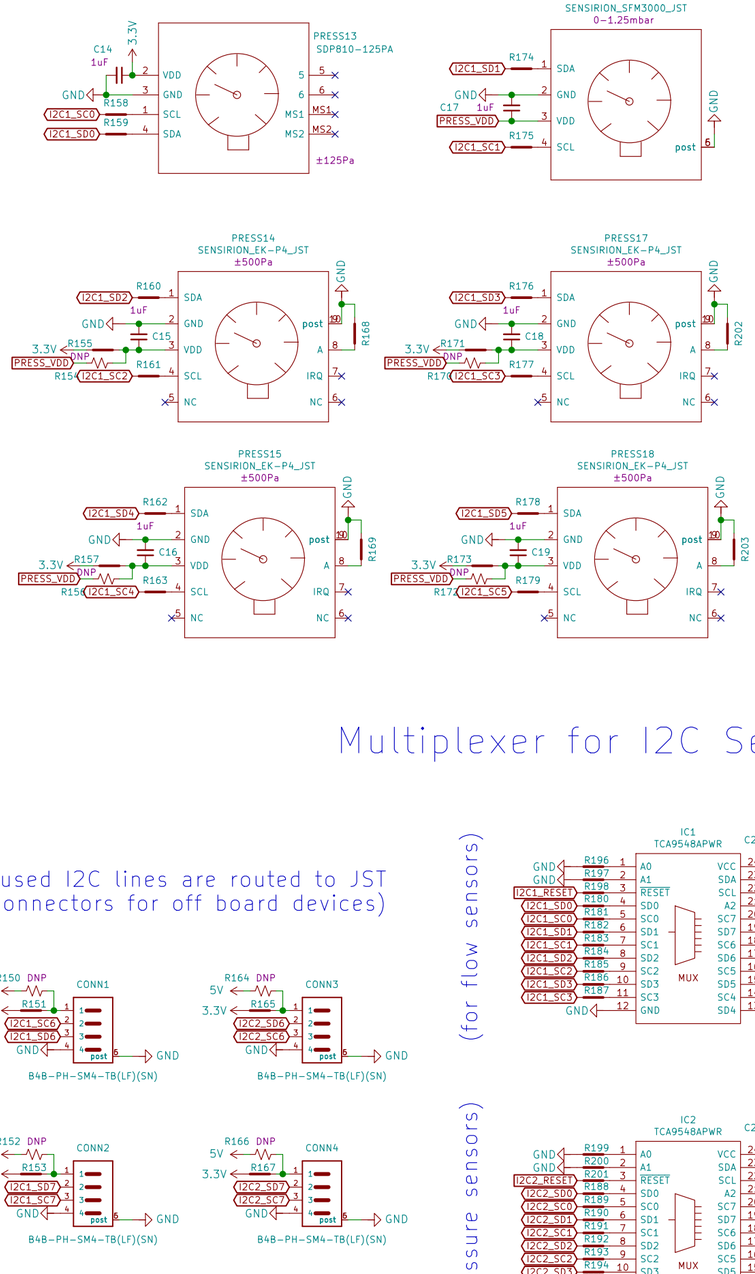
Size: User | Date: 2020-06-03 | **Rev: 1.0**

KiCad E.D.A. kicad (5.1.5-0-10_14) | Id: 2/5

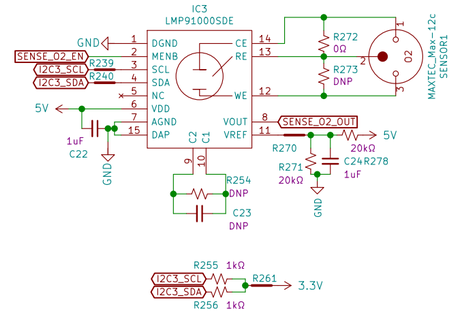
Pressure Sensors



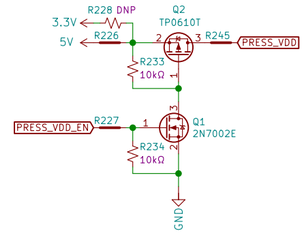
Flow Sensors



Oxygen Sensor



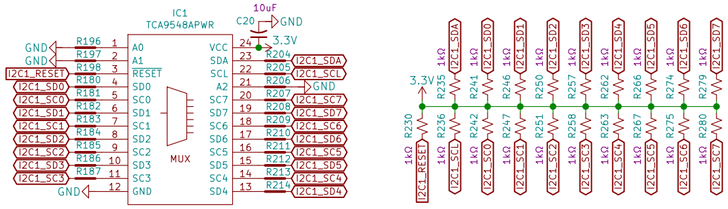
(software resettable power supply
for specified pressure sensors)



Multiplexer for I2C Sensors

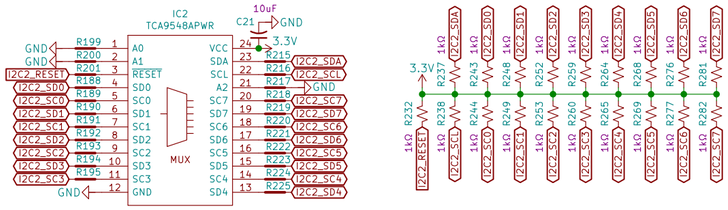
(unused I2C lines are routed to JST
connectors for off board devices)

(for flow sensors)



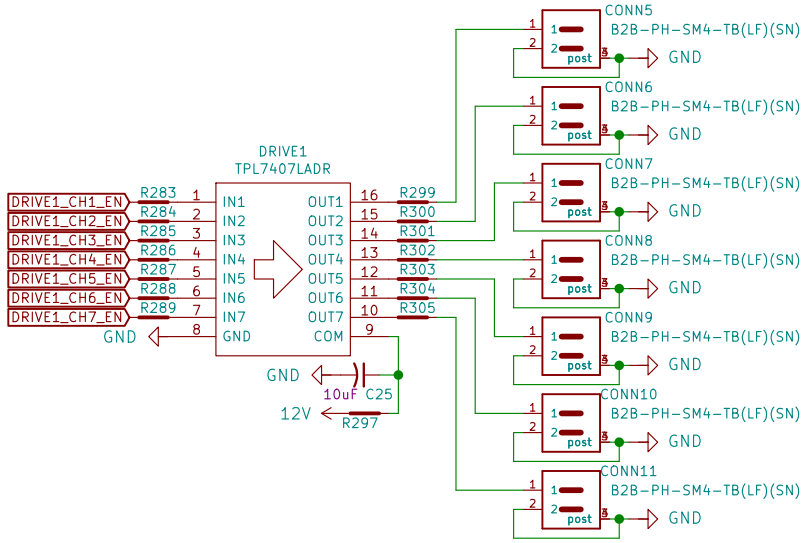
(pull-up resistors)

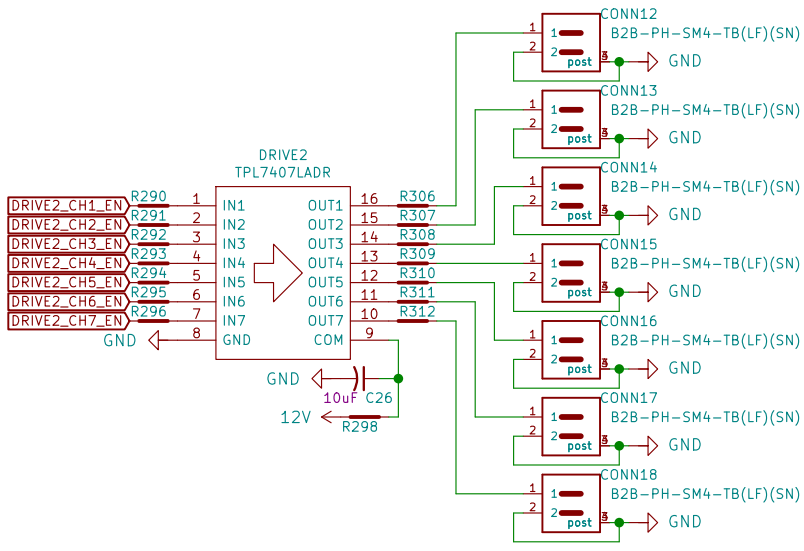
(for pressure sensors)



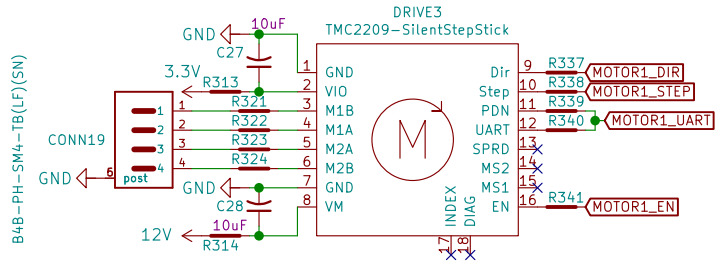
Pufferfish	Sheet: /Sensors/ File: Sensors.sch	Chris3Arcadia
	Title: Pufferfish Controller	
	Size: User | Date: 2020-06-03	**Rev: 1.0**
	KiCad E.D.A. kicad (5.1.5-0-10_14)	Id: 3/5

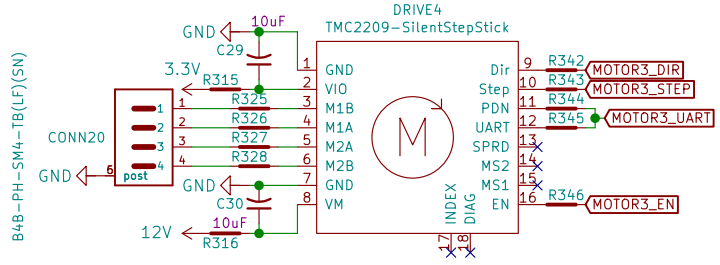
Solenoid Drivers

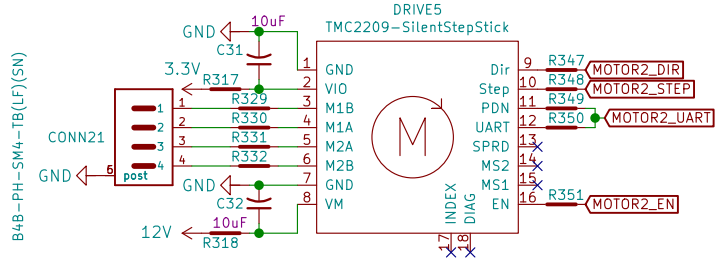


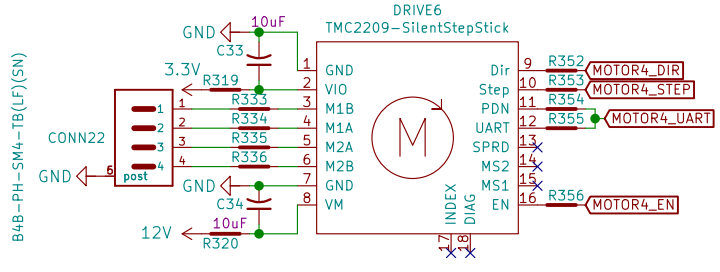


Motor Drivers









Pufferfish

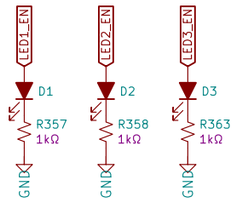
Sheet: /Actuators/
File: Actuators.sch

Chris3Arcadia

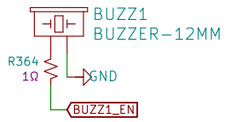
Title: Pufferfish Controller

Size: User | Date: 2020-06-03 | **Rev: 1.0**
KiCad E.D.A. kicad (5.1.5-0-10_14) | Id: 4/5

Indicators



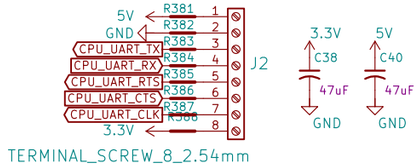
Alarms



Logo

LOGO

MCU to CPU



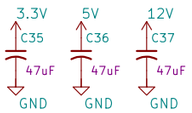
MCU to Monitor

(3.3V is not needed)

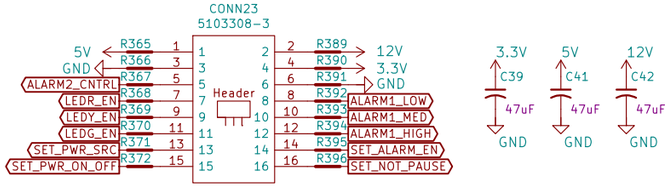
Power Supply

(supply line access)

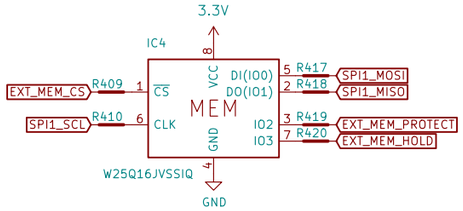
(bypass capacitors)

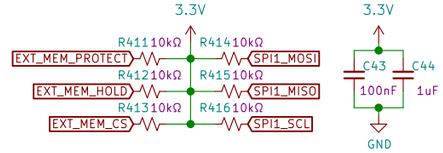


MCU to Interface Board

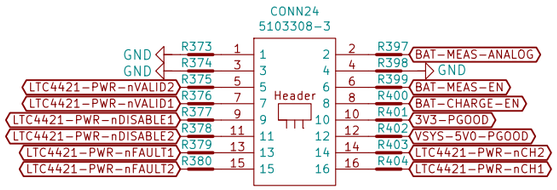


Memory





MCU to Power Board



Dials & Buttons

(moved to interface board)

Pufferfish	Sheet: /Peripheral/ File: Peripheral.sch	Chris3Arcadia
	Title: Pufferfish Controller	
	Size: User | Date: 2020-06-03	Rev: 1.0
	KiCad E.D.A. kicad (5.1.5-0-10_14)	Id: 5/5