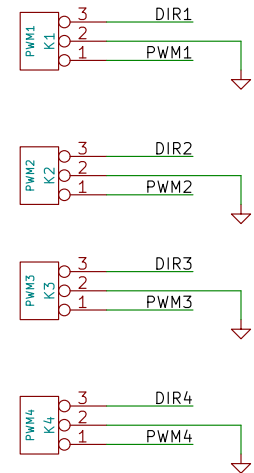
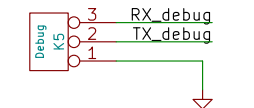


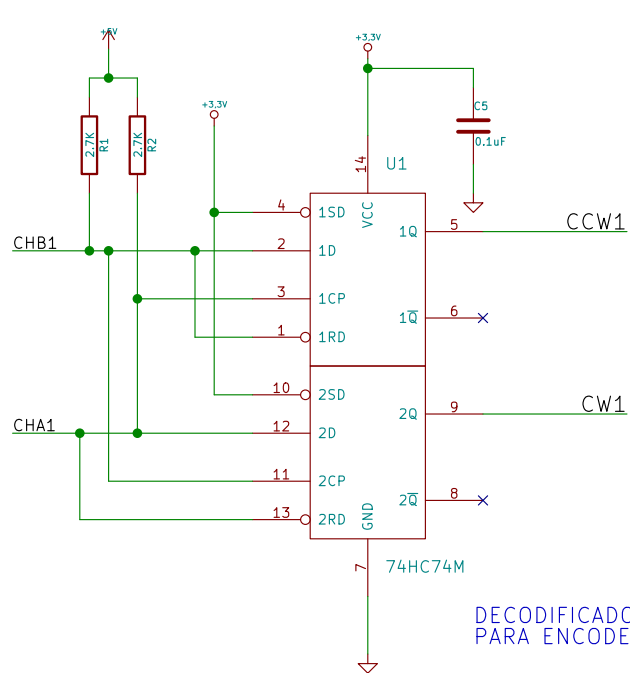
ENTRADAS ENCODER



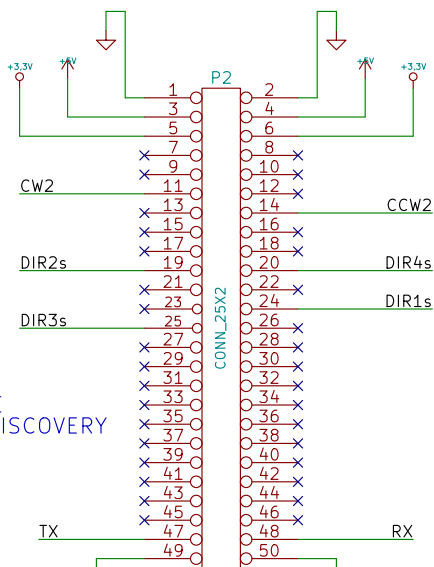
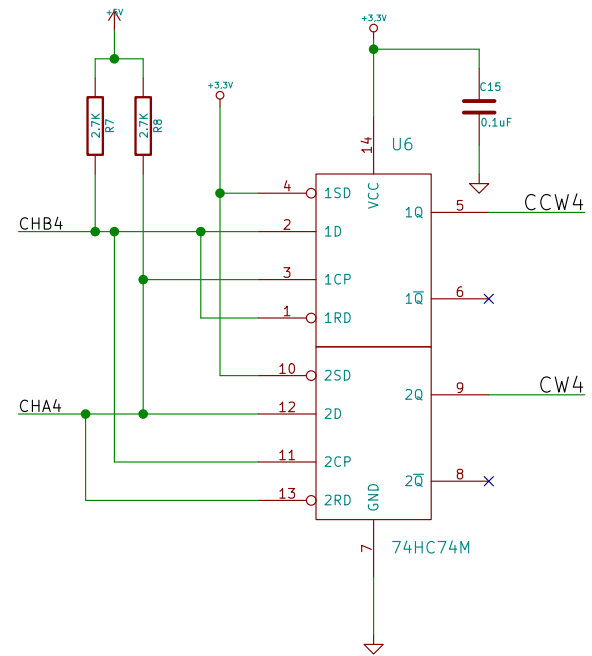
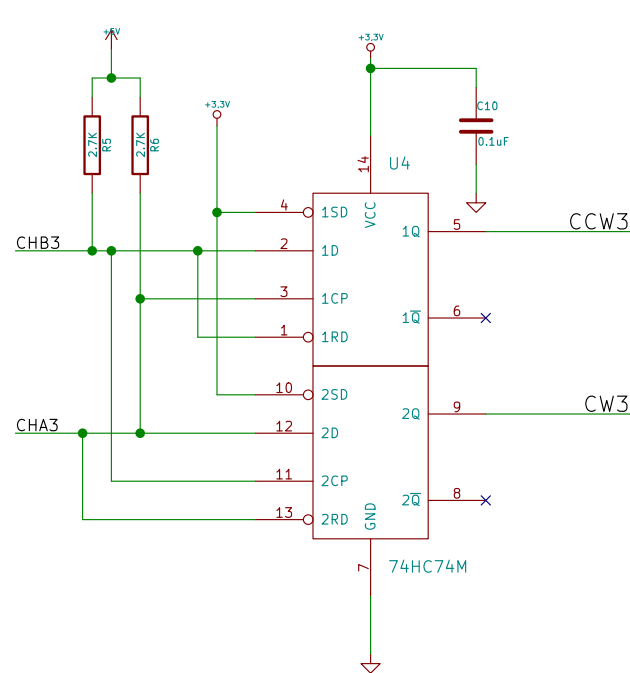
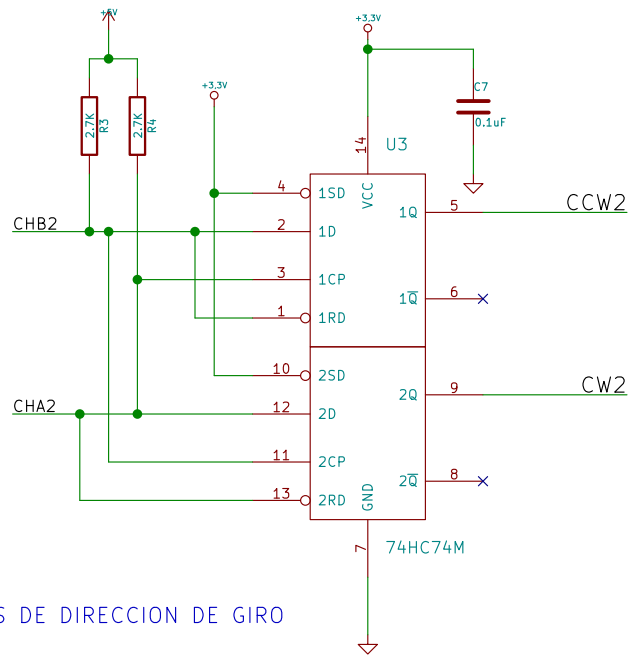
SALIDAS DE PWM Y DIRECCION DE GIRO



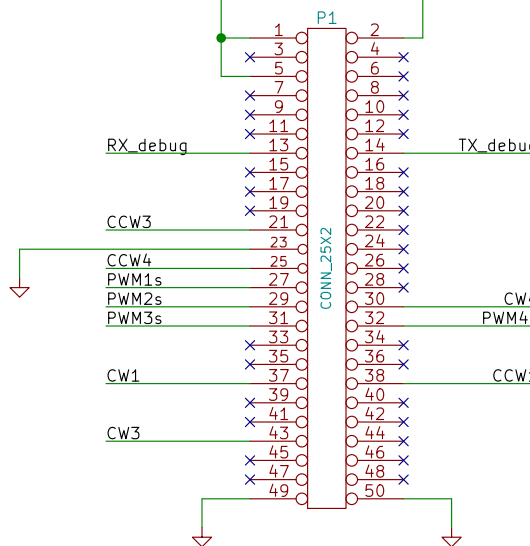
UART PARA CONTROL DE LUCES



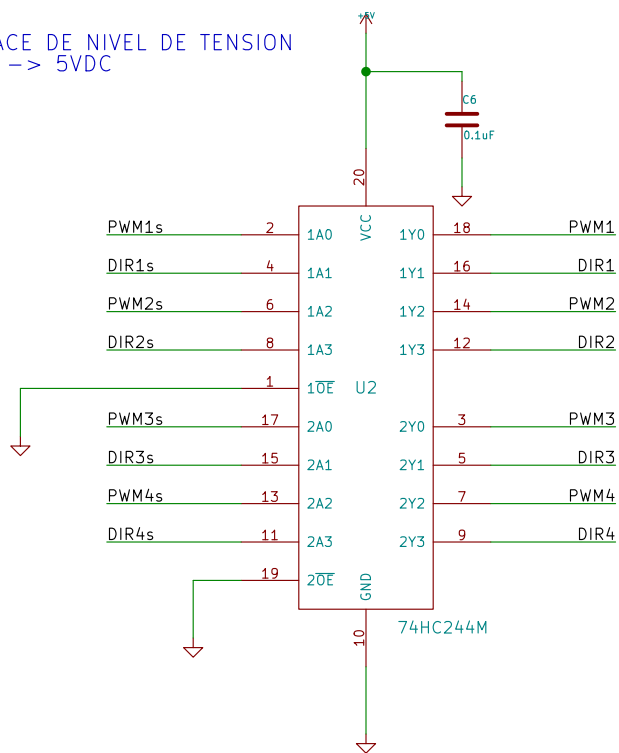
DECODIFICADORES DE DIRECCION DE GIRO PARA ENCODER



INTERFACE STM32F4DISCOVERY

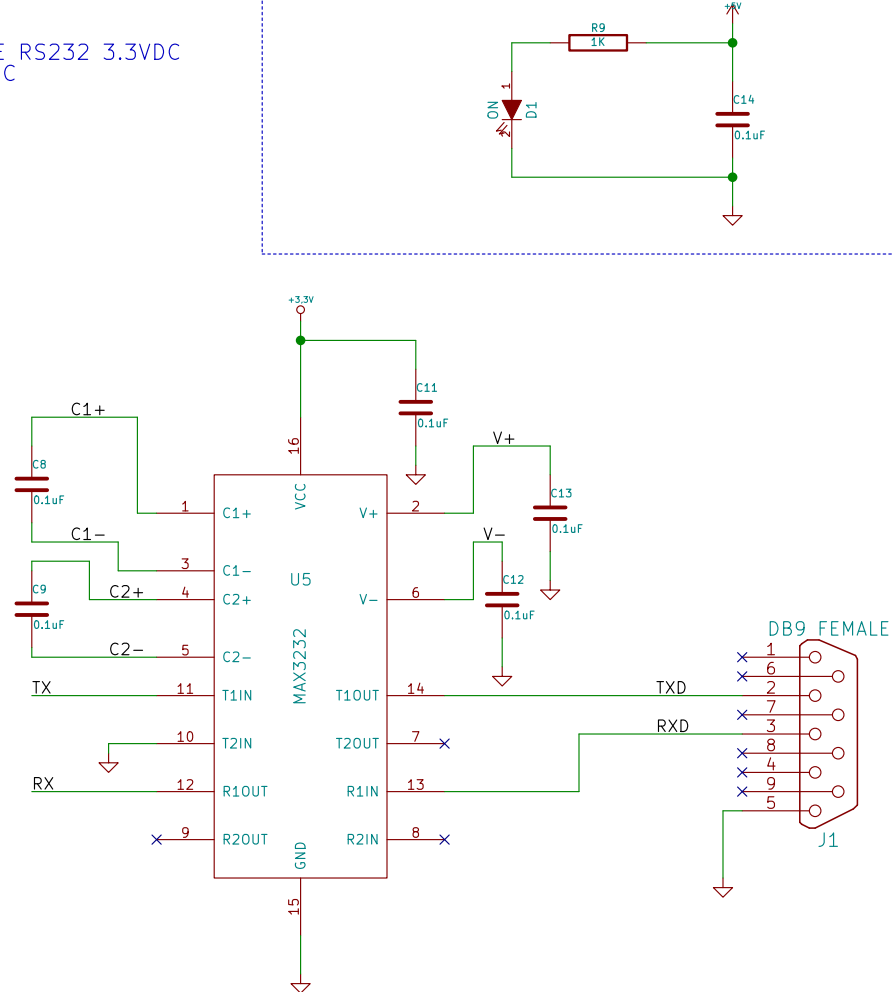


INTERFACE DE NIVEL DE TENSION 3.3VDC -> 5VDC



PINOUT  
PA3.....RX debug  
PA2.....TX debug  
CW1.....PB13  
CCW1.....PB14  
CW2.....PE6  
CCW2.....PE5  
CW3.....PD11  
CCW3.....PB1  
CW4.....PE12  
CCW4.....PE7  
PWM1.....PE9  
DIR1.....PB7  
PWM2.....PE11  
DIR2.....PB8  
PWM3.....PE13  
DIR3.....PB4  
PWM4.....PE14  
DIR4.....PB9  
TX.....PC6  
RX.....PC7

INTERFACE RS232 3.3VDC A TTL 5VDC



Universidad Nacional de Colombia

Sheet: /  
File: Interface.sch

Title: **Circuito Interface con la tarjeta Discovery**

|              |   |         |
|--------------|---|---------|
| Size: User   | Date: 21 feb 2015                             | Rev:    |
| KiCad E.D.A. | kiCad (after 2015-mar-04 BZR unknown)-product | Id: 1/1 |