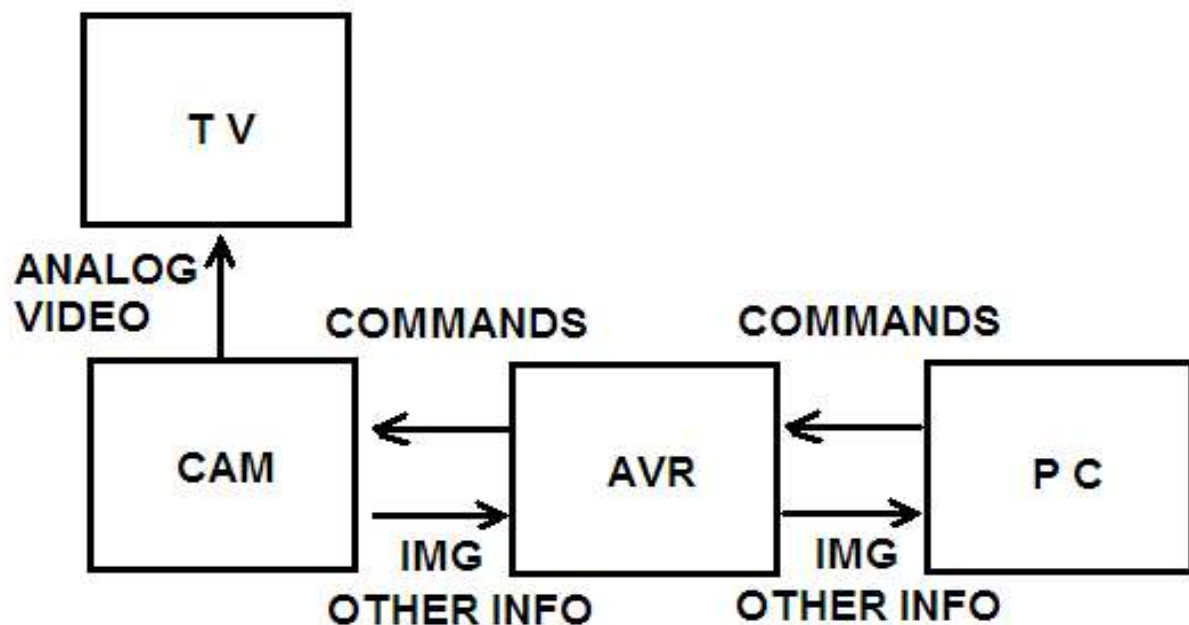


Digital Camera Interface

INTERFACE BETWEEN

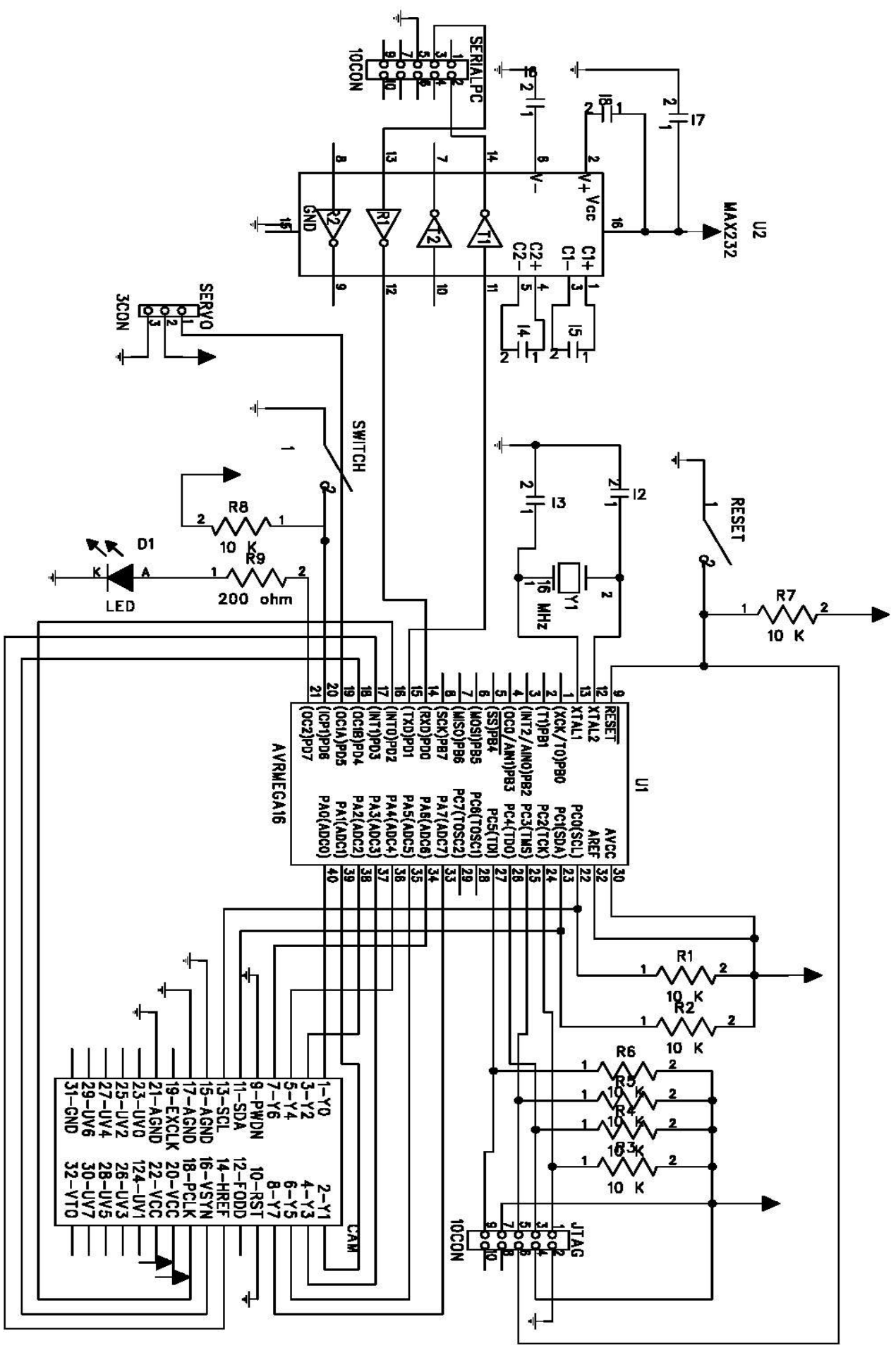
THE C3088 CAMERA (OV6620 CHIP OMNIVISION)
A COMPUTER

USING THE AVR Atmega16



PROPOUSED TASKS:

- CAMERA WORKING--> IMAGES IN TV
- COMUNICATIONS WITH PC (USART)
- ACCESS TO REGISTERS IN THE CAMERA (I2C)
- READ LINE FROM CAMERA AND SEND TO PC
- READ IMAGE FROM CAMERA AND SEND TO PC
- LITTLE IMAGES PROCESS & SEND RESULT TO PC



SOFTWARE MODULES:

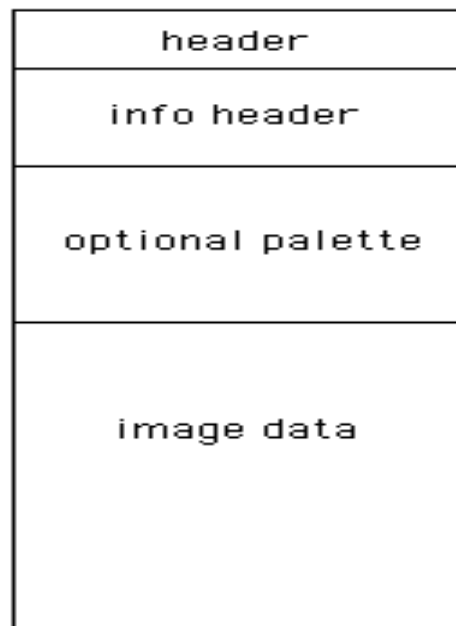
SERIAL COMMUNICATIONS

- BASIC FOR DEBUGGING
- RECEIVING BUFFER
- INTERRUPTION

I2C COMMUNICATION WITH THE CAMERA

- SCCB BUS AND I2C
- TWO WIRE SERIAL INTERFACE

BMP



GETTING THE IMAGE

- VERTICAL LINE READING
- HORIZONTAL LINE READING

LITTLE IMAGE PROCESS

SERVO

MAIN

RESULTS

....Control Camera Program....

Inaki Navarro Oiza (c)2004

Type HELP and return for help

ACK

HELP MENU-Commands:

RR arg1

WR arg1 arg2

READALL

RESET

MIRRORON

MIRROROFF

PHOTO

TESTBMP

PANORAMIC

SERVO arg1

SCAN

MOVESERVO

TRACK

