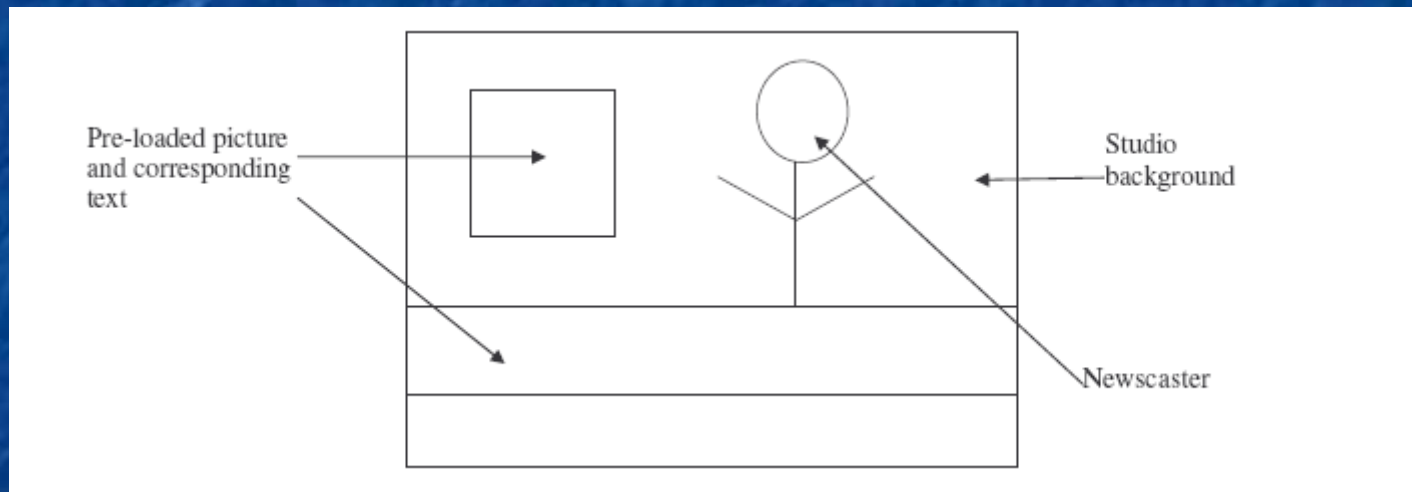# 6.111 Newscasting

Obinna Anyanwu
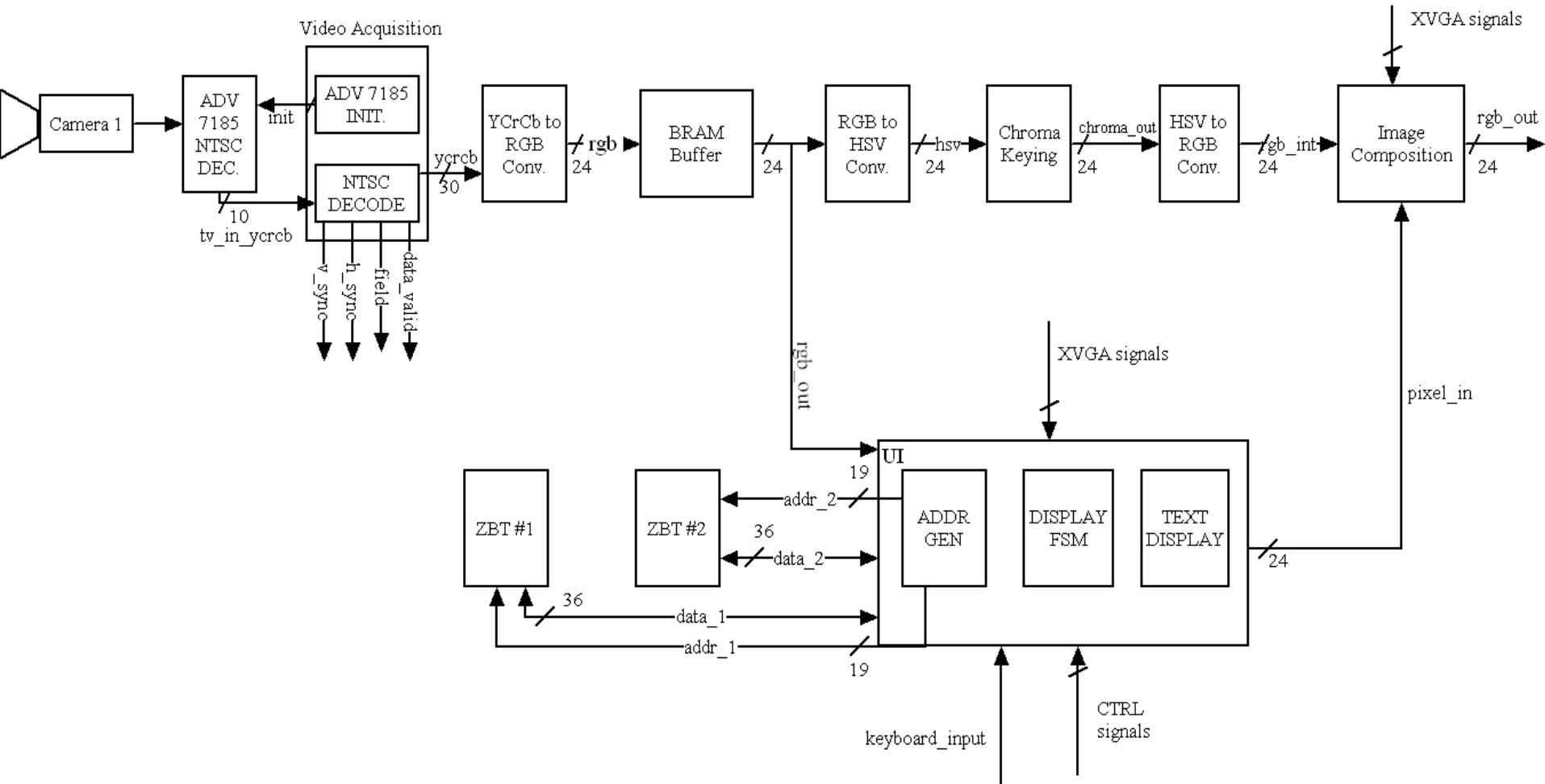Jyotsna Venkataramanan

Overview

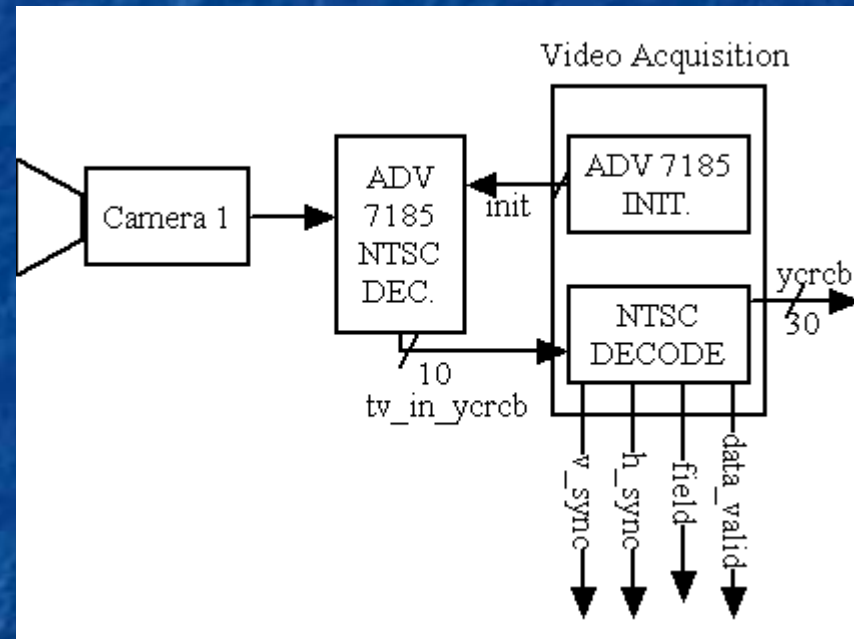- Aim: To create a do-it-yourself newscast

Block diagram

Division of Labor

- Obinna:
  - Input
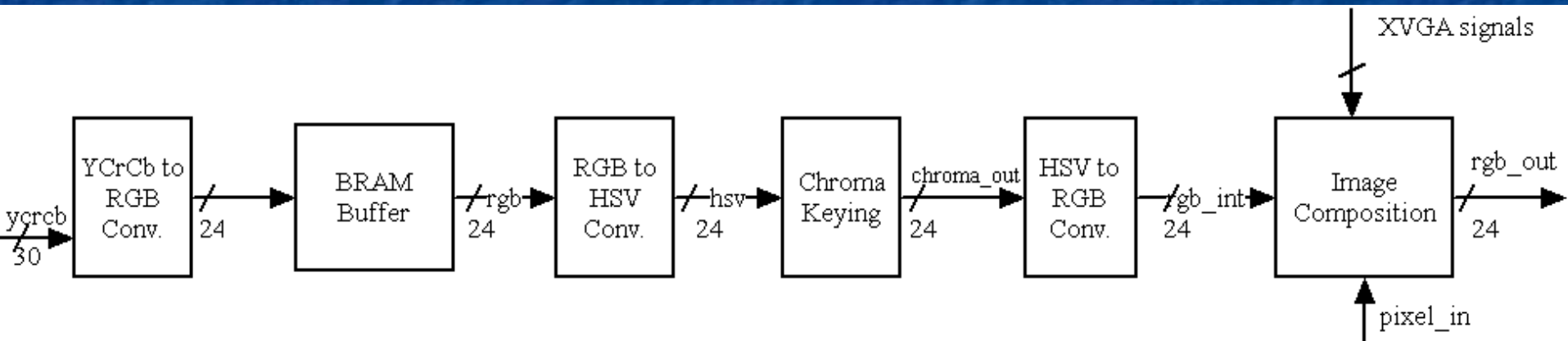 - Video Processing
- Jyotsna:
  - Control
  - Output

Input

- Generation of the NTSC-decoder chip initialization signals
- Generation of YCrCb data
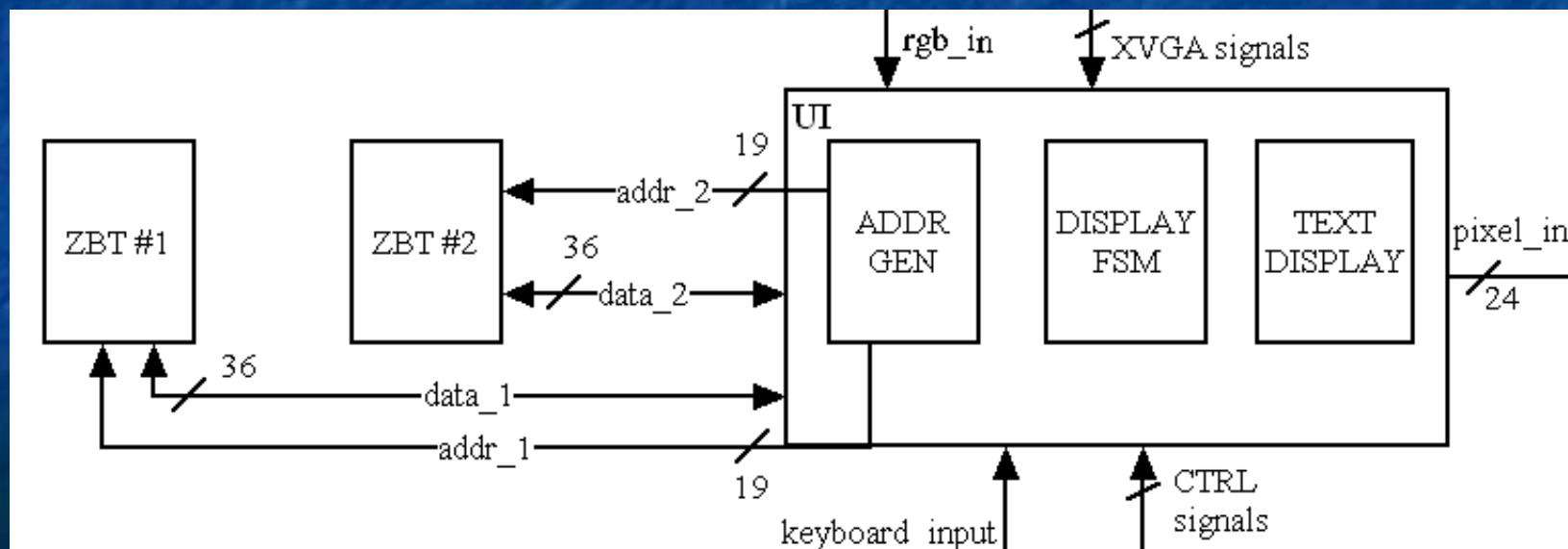- Generation of vertical and horizontal synchronization signals

Video Processing

- Image Composition module generates the composite video signal to be output
- Chroma keying is commonly known as blue screening

Control

- Allows user to take pictures and stores these in memory
- Allows the user to switch between pictures
- Allows input of text directly into screen

Output

- Output is finally displayed onto a VGA monitor
- Signals from the image composition block go to the ADV7125 Video DAC.

Improvements

- Second camera to allow real-time feed
- Multiple display options
- Adding a graphical interface

Timeline

- 11/16
  - Input module
  - ycrcb to rgb conv
- 11/23
  - Address generation module
  - Text display module
  - Conversion modules
  - Image composition module
- 11/30
  - Display FSM
  - Output module
  - Video Buffering
- 12/07
  - Working prototype