iPhone Wireless Video Project Overview

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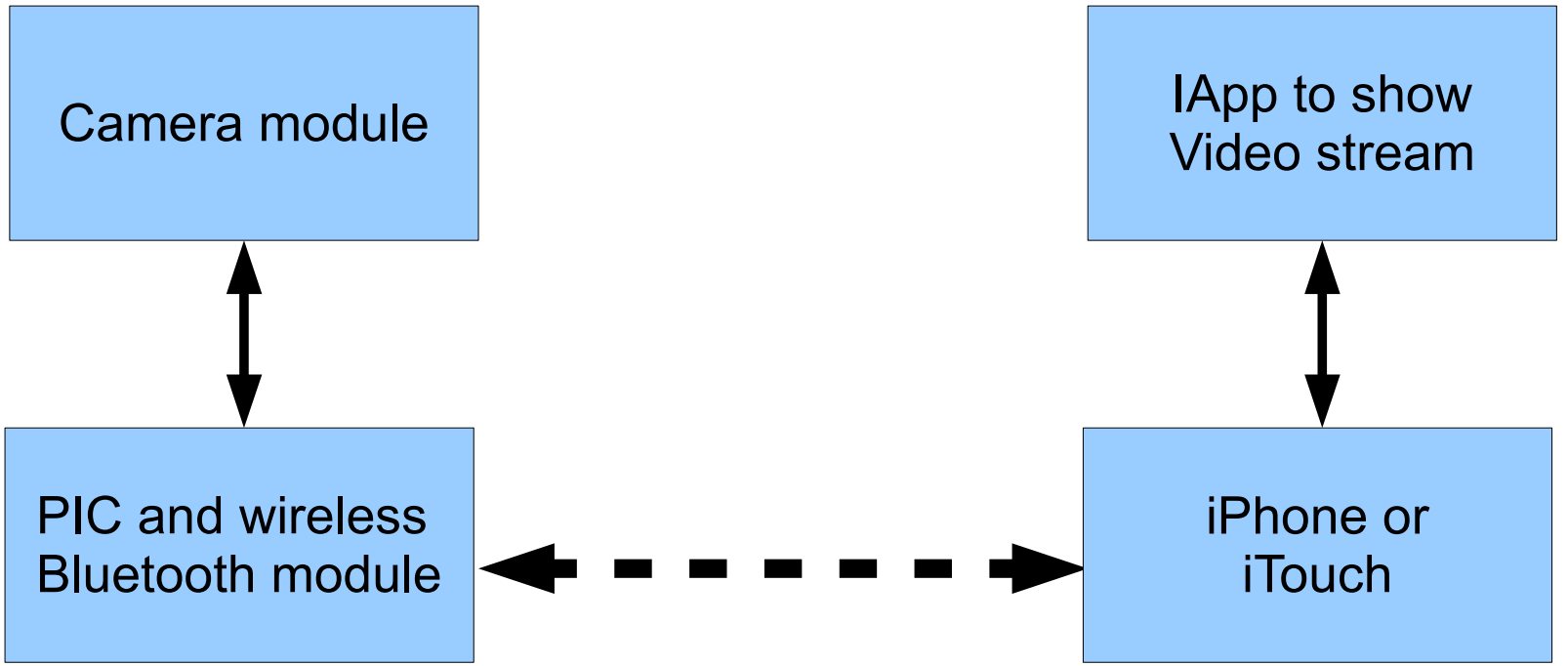
Overview

- Develop iPhone app / Linux Kernel support and hardware to receive low frame rate video from a Laryngoscope via BlueTooth or 802.11 interface
  - iPhone or iTouch
  - GumStix class uProcessor with transmitter
  - Small camera modules
  - Optional tasks with fiber optic lighting and video transmission from lens

Block Diagram



Project Goals

- Develop wireless transmission hardware and application
  - Review reference designs
  - Understand nature of video signals
  - Design prototype hardware to demonstrate use of wireless modules
  - Wire test components, cameras, etc.
  - Test system

Project Status

This project is a continued development effort but will basically start over since last year was a technology “proof of concept” demo, now we need to build it for real!

- Research bluetooth modules
- Develop prototype design
- Develop iApp
- Test prototype design hardware

Functional Positions

- Hardware Engineer
  - Design hardware architecture
  - Wiring for PIC, camera, etc.
- Software Engineer(1 or 2)
  - Design and develop iApp
  - Develop PIC code as may be necessary
  - Develop/manage Linux kernel and GumStix class processors.
- Optional fiber optics engineer
  - Develop fiber optic lens and lighting concepts