# **Liebner** Notification System



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## What?

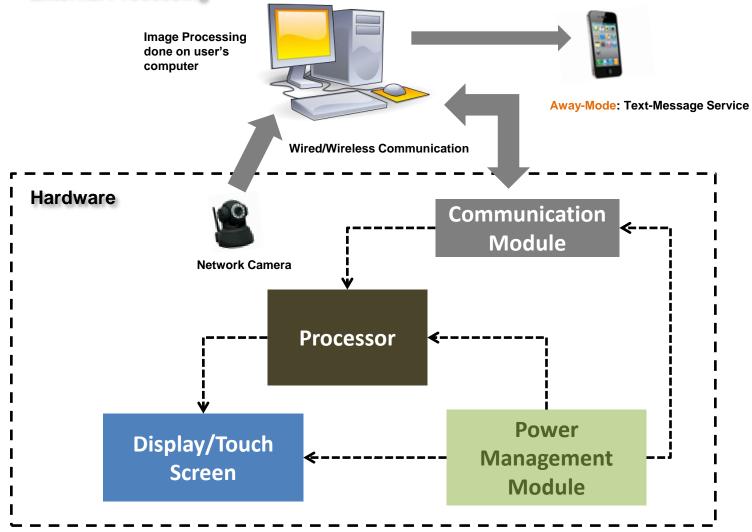


- An embedded notification system for an office door
- Enhances communication with people outside the office
- Provides a touch-based interface and one-way visual feed
- Network camera, touchscreen interface and processor able to communicate with a software application running on host computer
- Initial idea provided by Mr. Eric Liebner
- Solves conflict resulting from both an incoming phone call and help request at the door
- Potential to create a commercially successful project



## **Technical Details**

#### **External Processing**





## **Decision Making**

Wireless vs. Wired Design ?

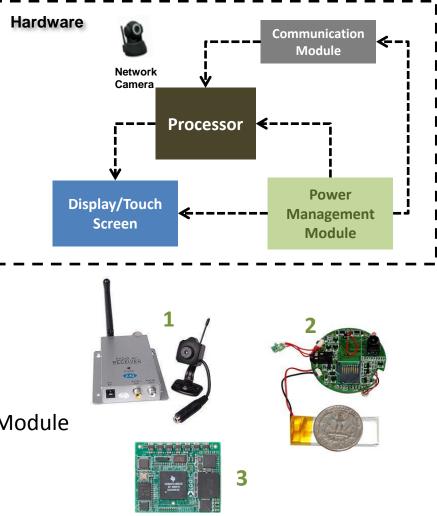
- Affects power management
- Camera selection
- Processor selection
- Communication module selection

LCD Display vs. LCD Touchscreen ?

- Separate vs. integrated
- Influences processor selection

#### **Camera and Processor Research**

- 1. Mini Wireless Color Camera
- 2. Micro DVR / JPEG Video Camera Module
- 3. OMAP-L138 SOM-M1
- MSP430XXX/AtmegaXXXX alternative





## **Other features**

OpenCV-based face detection on PC

- Direct camera connection
- Triggers active power mode

C++/Java-based Software Application providing additional controls

Text-message service done from PC

