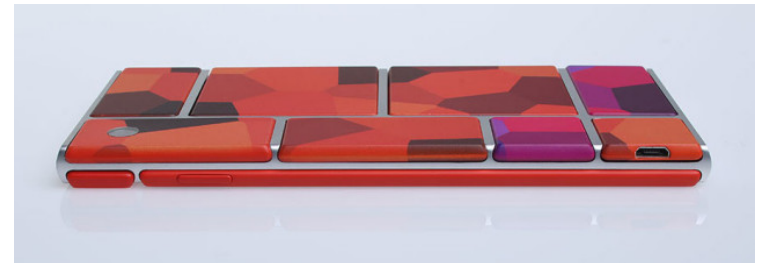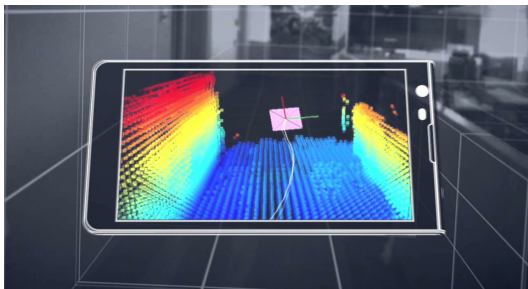# ECE 1778:
Creative Applications for Mobile Devices

Lecture 8

March 3, 2014

Just Arrived from Indiegogo - TrackR

- Wireless tracker/locater
- Warns when leaving behind,
- Look for where with GPS snapshot
- Can ask phone where button is
- Can ask button where phone is
- Crowd-sourced distance tracking
- http://www.button-trackr.com

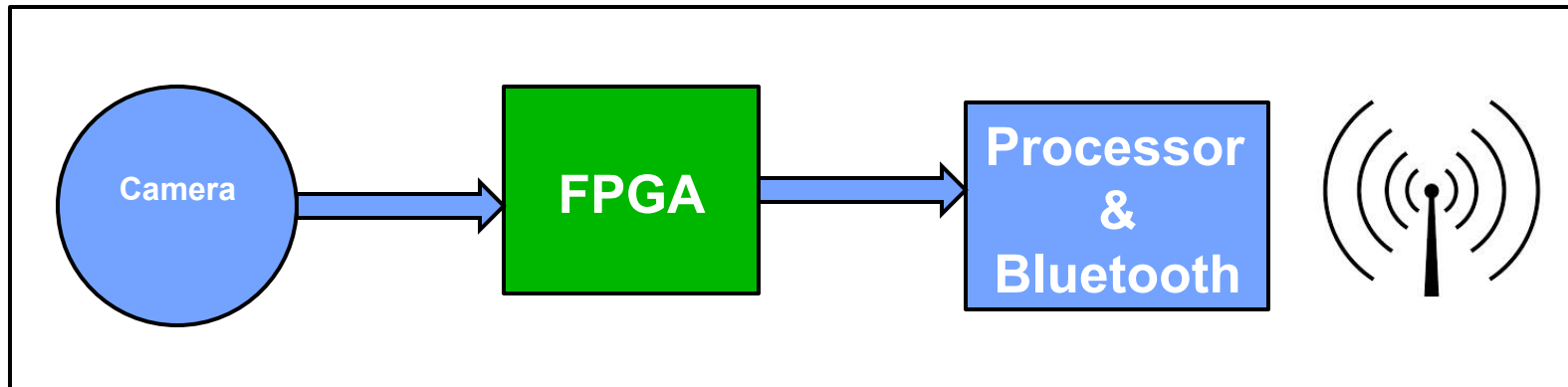Attach it to items using an included strap

FPGA Conference

- I attended last week in Monterey, CA

- Panel "Will FPGAs Crack Mobile?"
  - FPGAs are programmable hardware
  - Could be useful for signal processing at low energy

- One of the FPGA companies is focusing on this
  - Lattice, has a chip in a Samsung S4

- Lots of discuss

- I had the urge to build this (or get one of the companies to build it):

Low-Res Camera+DSP+Proc+Bluetooth

- Cheap & small
- Camera resolution largest that can be supported by bluetooth transmission'
- Maybe audio too?
- Hmm what about the other sensors ….

Today

1. Logistics
2. Spiral 2 Presentations

Project Time Line

Project/Course Time Line

1. Forming Groups
2. One-Page Proposal
3. Project Plan – due last week
4. Proposal/Plan Presentations
5. **Spiral 2 Presentations**
   - **March 5 (Today)**
   - **March 12 (Next Week)**
6. Spiral 4 Presentations
   - March 19
   - March 26
7. Final Presentations
   - April 2
   - April 9
8. Final Report Due April 10th

Assignments

- Are (almost) all graded
- Quite well done!
- Only projects left to do!

Spiral 2 Presentations Today

#	Project
1	Smart Parking
2	Positive Snake
3	Face2Name
4	MyAlly
5	Speech Coach
6	Surgical Trainer and Navigator
7	Acoustica
8	Maintenance Agent
9	Asteria

Presentations March 12

#	Project
10	Nutrition Label Data Visualizer
11	Lense Meter
12	Critter
13	Baton
14	WorldyMobile
15	MyLock
16	MyKnee
17	The Second Class