BADGEr: E-Paper for the rest of us

Anool M.
We’re WyoLum Emergents
Introducing BADGEr

1. Hardware
2. Software
3. Programming
4. What’s next
Initial concepts
Final selection

Early prototypes used the development board from rePaper.org.

Your conference badge is a 276x164 pixel display offered by Repaper.org.
Voltron Assemble!

A Brilliant Idea...
Feb 17, 2013
Seeed/WyoLum Agreement
Feb 19, 2013
OHS approves
Mar 1, 2013
RePaper Agreement
Apr 26th
First prototype
May 1
Second prototype
July 5th
Third prototype
Sept 6 OHS!

@Where's BADGE?
Voltron Assemble!

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@Wheres BADGER?

Sept 6 OHS!
Manufacture
Let's have a play

Power switch on the back switches your BADGEr on

The red LED on the front indicates when power is on
Image Hacking

http://wyolum.com/installing-wifit-py-on-linux/
http://wyolum.com/installing-wifit-py-on-windows/
Prefer Mac? We need your help.
Programming BADGEr

Load new images onto SD card
    Photobooth
    wifit.py
Program via FTDI header, or ISP
EREader Arduino library
    http://wyolum.com/downloads/ereader.zip
Arduino Headers
OHS Photobooth

Personal Details merged from/ALBUM/A/person.csv

Raspberry Pi, Raspberry Pi camera, Alamode, Chalk-elec display, USB hub, RowGB LED strip, Big red button
Share your hacks!

WyoLum Emergents -> BADGEr Hacks

WyoLum on Facebook/Twitter
What’s next?

SD Ram for faster page updates

5V, 16 MHz

Offer complete conference solution
Thanks to our sponsors

Justin Shaw  
Anool Mahidharia  
Kevin Osborn  
Brian Krontz  
David Pincus

Sean Moss-Pultz  
Charming Su

Nana Chou 周秦娜  
Eric Pan  
Jin Shiqin 靳世钦
OHS2014 Badges?

HELLO
my name is

Justin