

Hacking Hardware: Fun with Twilio and Arduino

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Text TWL18 to 46876 to ask a question, follow up w me,
or get my slides

Obligatory Bio

- Former Board Member at HeatSync Labs (Mesa, AZ)
 - Blogged about local makers/hackers
 - Built stuff
- Now in New York, NY
- Provocateur of lulz

Hardware? In My API Conference?

- Generalized devices for specialists vs specialized devices by generalists
- Web/Mobile Developers?
 - Don't become "that guy that only does Java" s/Java/webdev/g
 - Familiarize the unfamiliar

OLDIALER!

Phone number:

TROLLING OPTIONS:

1. RICKROLL
2. LAVAROLL
3. KEYBOARD CAT
4. PIRATE SONG
5. FRIDAYROLL
6. TROLOLOL
7. BANANA PHONE
8. BOXXYROLL
9. BADGER BADGER



CREATED FOR THE LULZ BY DAVID NANCE AT NANTUCKET, MASS
WWW.NANTUCKETNANCE.COM

Photo by Jasper Nance.

Hardware Ingredients

- NEW NEW NEW! lol dialer 2.0, less hardware, moar lulz!
- Membrane keypad from The Future
- Smaller, lower voltage LCD
- Ethernet-integrated Arduino board
- Still can't get the reset button to work

Arduino Boards

- Arduino Uno plus Ethernet shield
- Arduino Ethernet board (optional PoE)
- Arduino Uno plus Wifi shield if you can kidnap Massimo Banzi and steal it

Power Supply

- USB power is a road to sadness
- 9 volt batteries are a road to sadness
- Jury's still out on banana power:
<http://www.quora.com/How-many-bananas-will-it-take-to-power-an-Arduino-Uno-board?q=How+many+bananas+>
- AC adapters are nice

LCD Display

- Less pins == less wires == less angst
- Gotta have my bowl, gotta have serial
- Serial commands may accidentally the whole display, override derpyness in `setup()`

Keypads: Vintage 70s or membrane futurism

- Original loIdialer used a keypad that needed for resistors for Arduino use
 - <http://www.sparkfun.com/products/8653>
- New loIdialer uses membrane keypad with no additional resistors
 - <https://www.adafruit.com/products/419>

Code!

<https://github.com/huertanix/loldialer>