WEARABLE NOTIFICATIONS: INSTA-FICATION

SALLY CHAN · SC08KK · GDES3B16 WEARABLE TECH 1 · 12.06.12

DO YOU LEAVE YOUR PHONE ON SILENT?
LEFT IT IN YOUR BAG?
3 MISSED CALLS?
CONTEXT

CONTEXT
YOU KEEP CHECKING YOUR PHONE

LOWERS PRODUCTIVITY
LACK OF CONCENTRATION
ATTENTION DEFICIENCY
CONTEXT

CONTEXT

IN CLASS
IN A MEETING
IN THE CAR *(WHILE DRIVING?!?)*
AT THE DINNER TABLE
IN A CONVERSATION
AT A CONCERT
ON A DATE

...AND OTHER INAPPROPRIATE SCENARIOS

Johan Larsson @ Flickr

CONTEXT

CHECKING HABITS:

BRIEF, REPETITIVE INSPECTION OF DYNAMIC CONTENT QUICKLY ACCESSIBLE ON THE DEVICE

Johan Larsson @ Flickr

CONTEXT

CHECKING HABITS:

LASTS LESS THAN 30 SECONDS, EACH WITHIN 10 MINUTES OF EACH OTHER

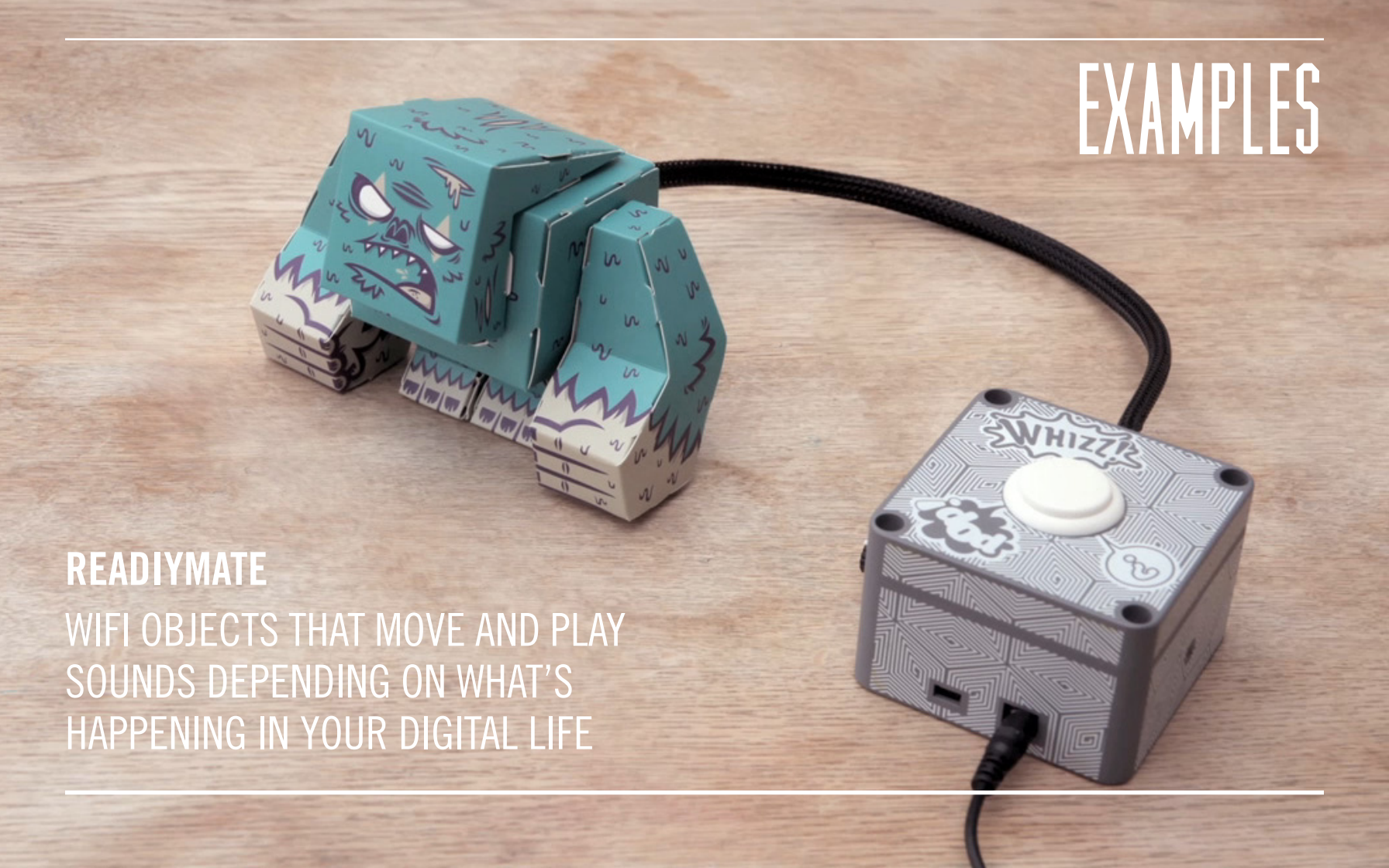
Johan Larsson @ Flickr

EXAMPLES

L8 SMARTLIGHT

THE SOUNDLESS SPEAKER FOR PHONE/PC

EXAMPLES



READIYMATE

WIFI OBJECTS THAT MOVE AND PLAY SOUNDS DEPENDING ON WHAT'S HAPPENING IN YOUR DIGITAL LIFE

CAN IT NOTIFY ME THROUGH A PERSONAL AND UBIQUITOUS EXPERIENCE?

CONCEPT

dhammza @ Flickr

CAN IT NOTIFY ME THROUGH A PERSONAL AND UBIQUITOUS EXPERIENCE?

CONCEPT

WEARABLE TECHNOLOGY

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CAN IT NOTIFY ME THROUGH A PERSONAL AND UBIQUITOUS EXPERIENCE?

CONCEPT

WEARABLE TECHNOLOGY

BE NOTIFIED INSTANTLY AND RECEIVE A JOLT OF POSITIVE FEEDBACK THAT YOU ARE IMPORTANT!!

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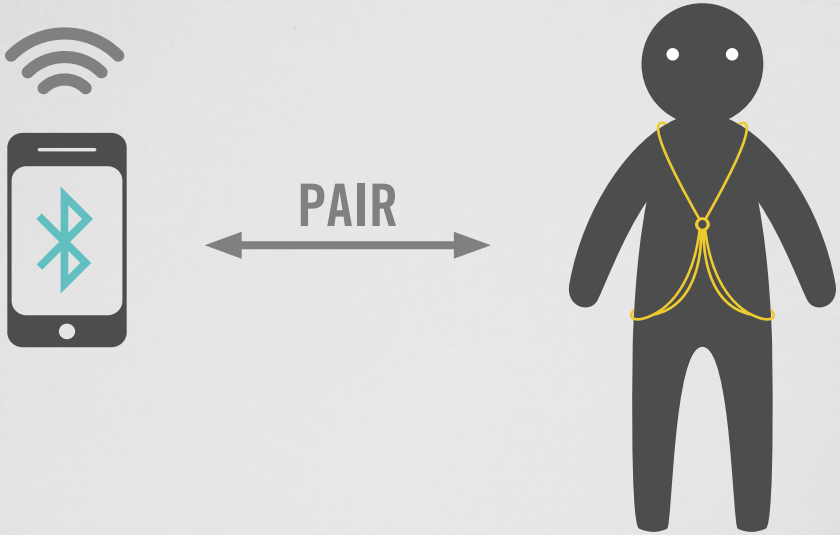
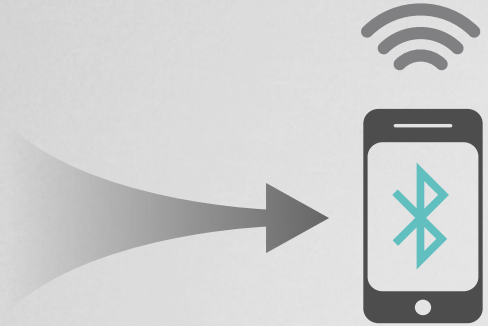

PAIR

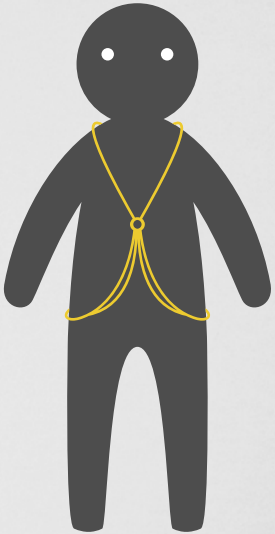
SMS TEXT MESSAGES

PHONE CALLS

SOCIAL NOTIFICATIONS

ALARMS





SMS TEXT MESSAGES

PHONE CALLS

SOCIAL NOTIFICATIONS

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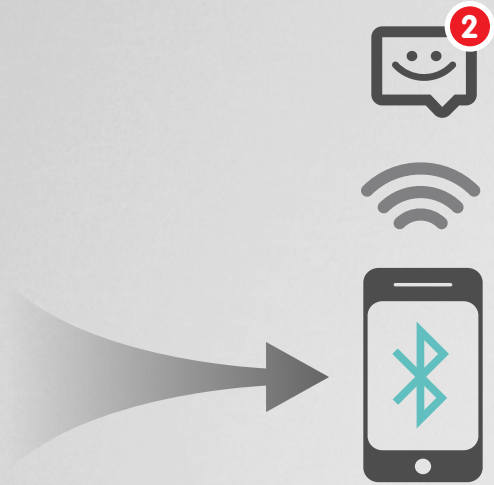
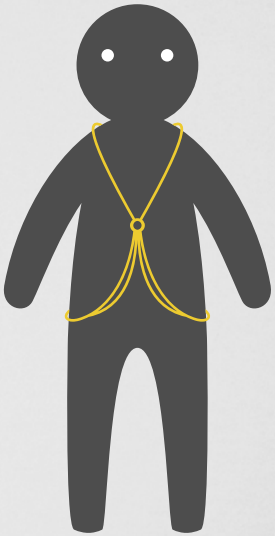
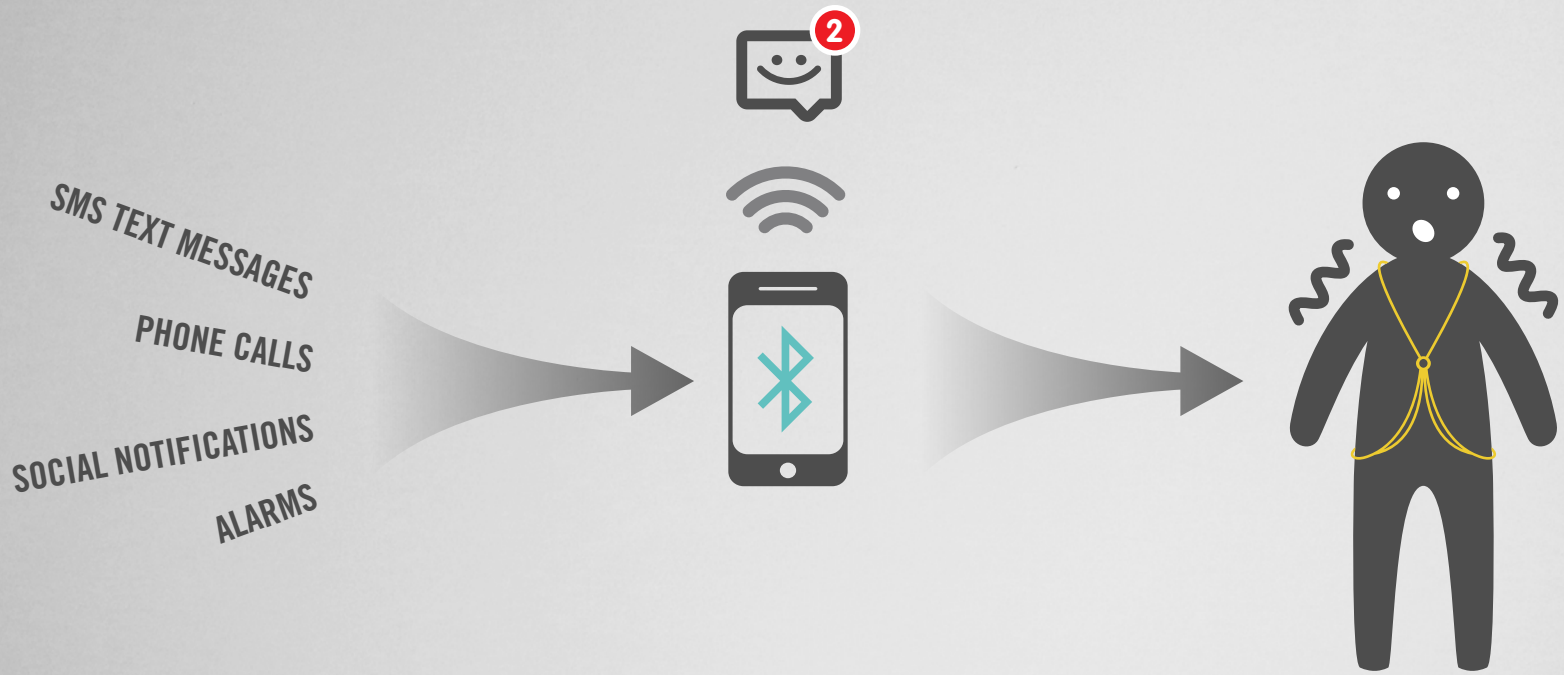
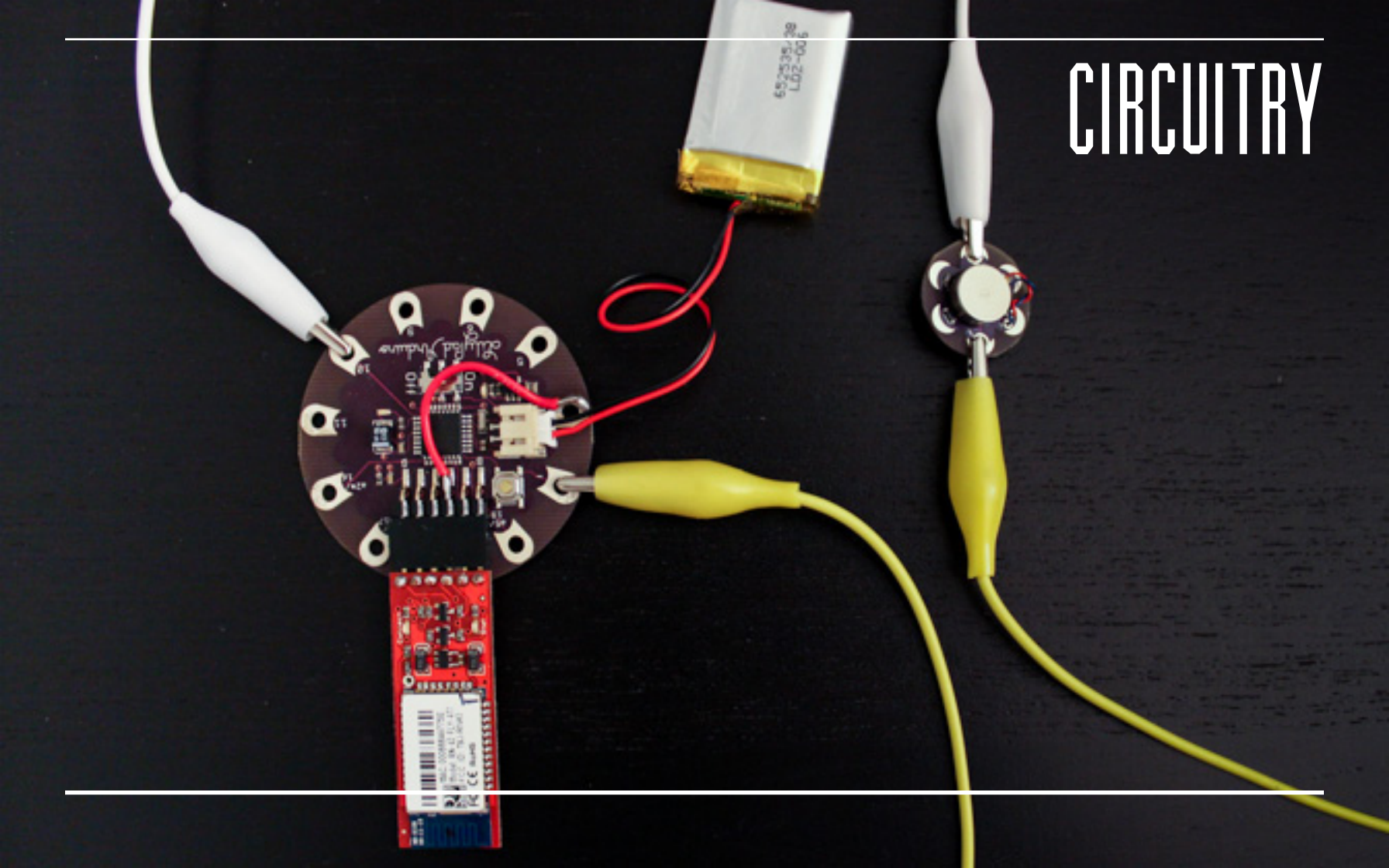
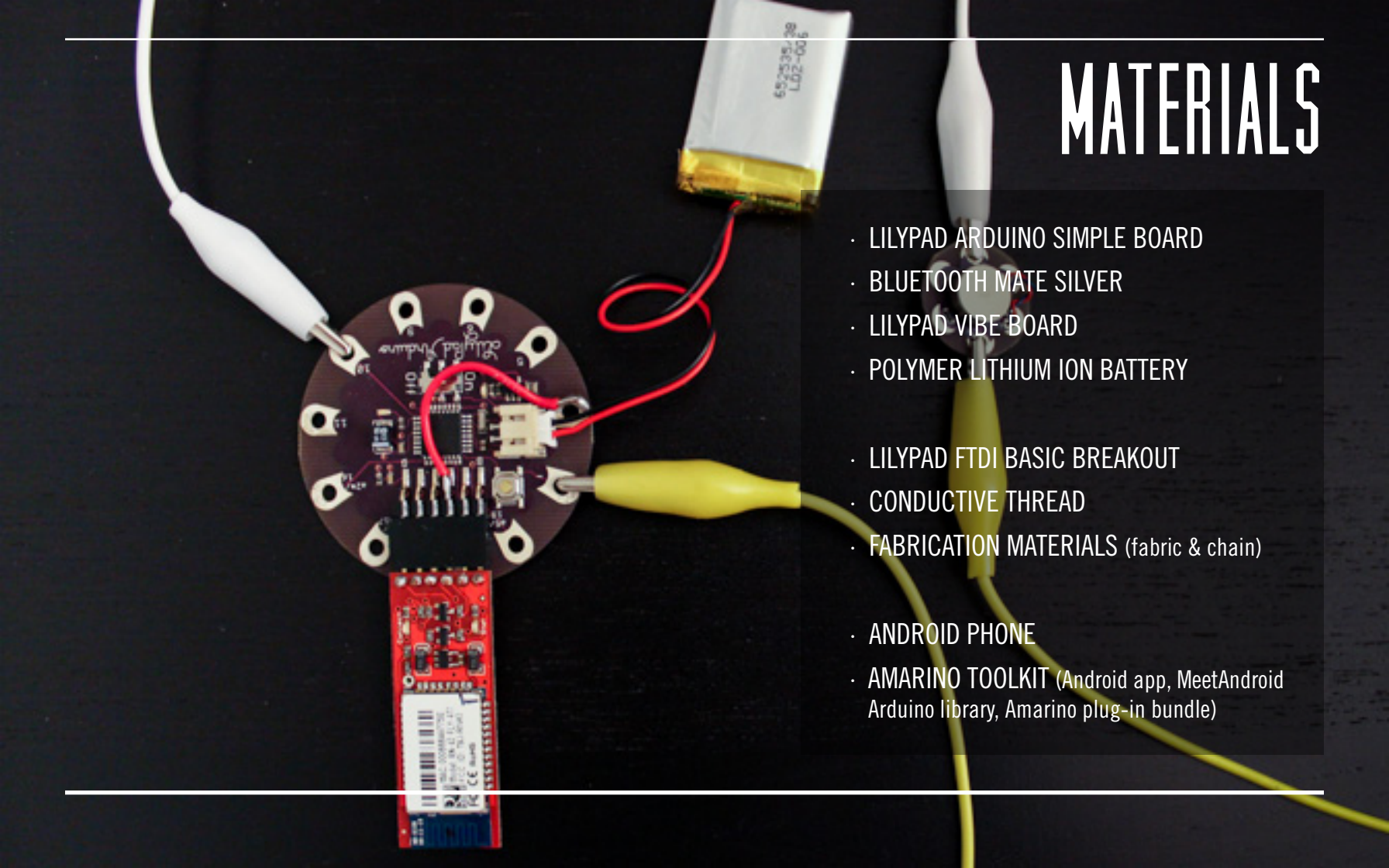





SMS TEXT MESSAGES
PHONE CALLS
SOCIAL NOTIFICATIONS
ALARMS
2

CIRCUITRY





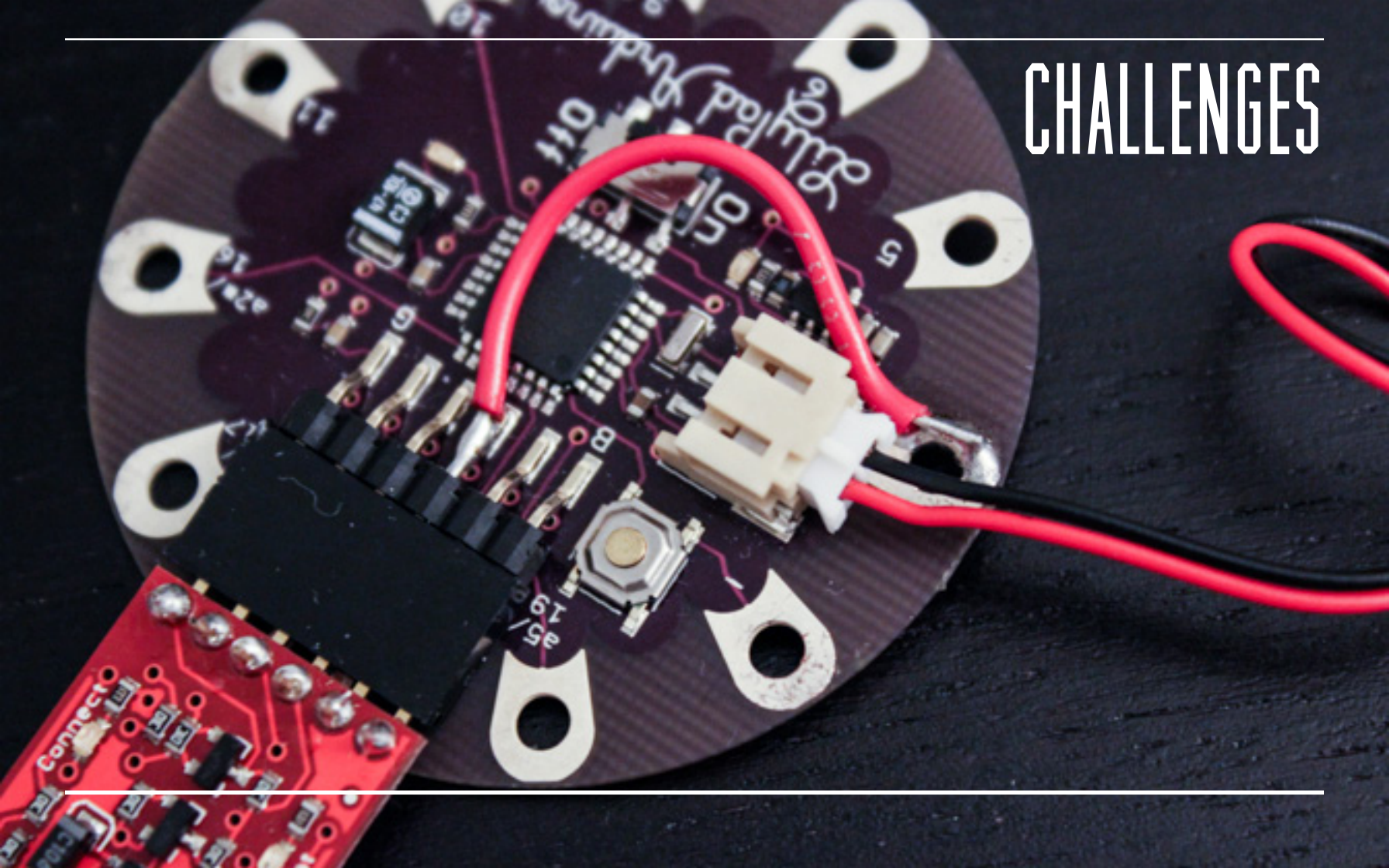
MATERIALS

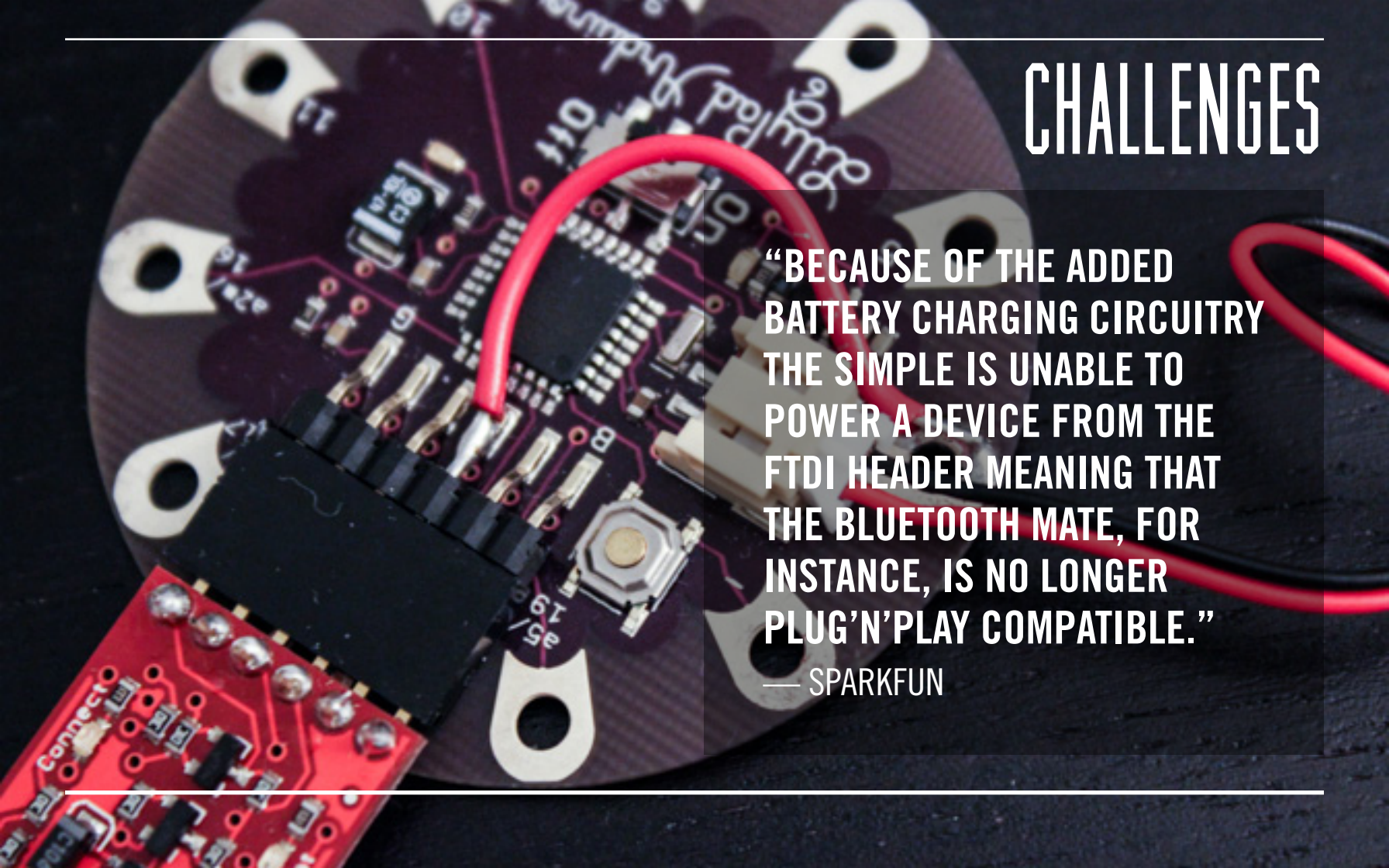
- LILYPAD ARDUINO SIMPLE BOARD
- BLUETOOTH MATE SILVER
- LILYPAD VIBE BOARD
- POLYMER LITHIUM ION BATTERY

- LILYPAD FTDI BASIC BREAKOUT
- CONDUCTIVE THREAD
- FABRICATION MATERIALS (fabric & chain)

- ANDROID PHONE
- AMARINO TOOLKIT (Android app, MeetAndroid Arduino library, Amarino plug-in bundle)

CHALLENGES





CHALLENGES

"BECAUSE OF THE ADDED BATTERY CHARGING CIRCUITRY THE SIMPLE IS UNABLE TO POWER A DEVICE FROM THE FTDI HEADER MEANING THAT THE BLUETOOTH MATE, FOR INSTANCE, IS NO LONGER PLUG'N'PLAY COMPATIBLE."

— SPARKFUN

CHALLENGES

OUTDATED AMARINO_2.APK ANDROID APP

SUPPORT FOR ANDROID 1.6 AND 2.X DEVICES
(ONLY UP TO GINGERBREAD, CURRENTLY 4.X)

Issa Fakhro @ Flickr

NEXT STEPS

- **IMPLEMENT DIFFERENT VIBRATIONS FOR DIFFERENT NOTIFICATION TYPES**
  ALARM, PHONE STATE, SOCIAL, GAMES
- **DIFFERENT WEARABLE FORMS**
  UNISEX, ACTIVEWEAR
- **TWO-WAY COMMUNICATION**
  ARDUINO TO ANDROID