

便携式脑机接口

Walk-EEG

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Walk-EEG Project—Phase 1

- Channel -- 16
- Sample Rate – 8KHz
- Sample bit – 24bit
- Pass band – 0~1KHz
- Use USB wire transfer to PC or laptop

Need to be

- 10uV signal acquisition
- As small as possible

Walk-EEG Project—Phase 2

- Channel -- 16
- Sample Rate – 8KHz
- Sample bit – 24bit
- Pass band – 0~1KHz
- FPGA based digital signal processing
- Open source for HDL code
- Example IP-core for image motor potential based BCI
- As small as possible

Walk-EEG Project—Phase 3

- Channel -- 16
- Sample Rate – 8KHz
- Sample bit – 24bit
- Pass band – 0~1KHz
- FPGA based digital signal processing
- Wireless
- Portable
- Good design & User Experience

August, 2013, We attend



小米手机-HAXLR8on

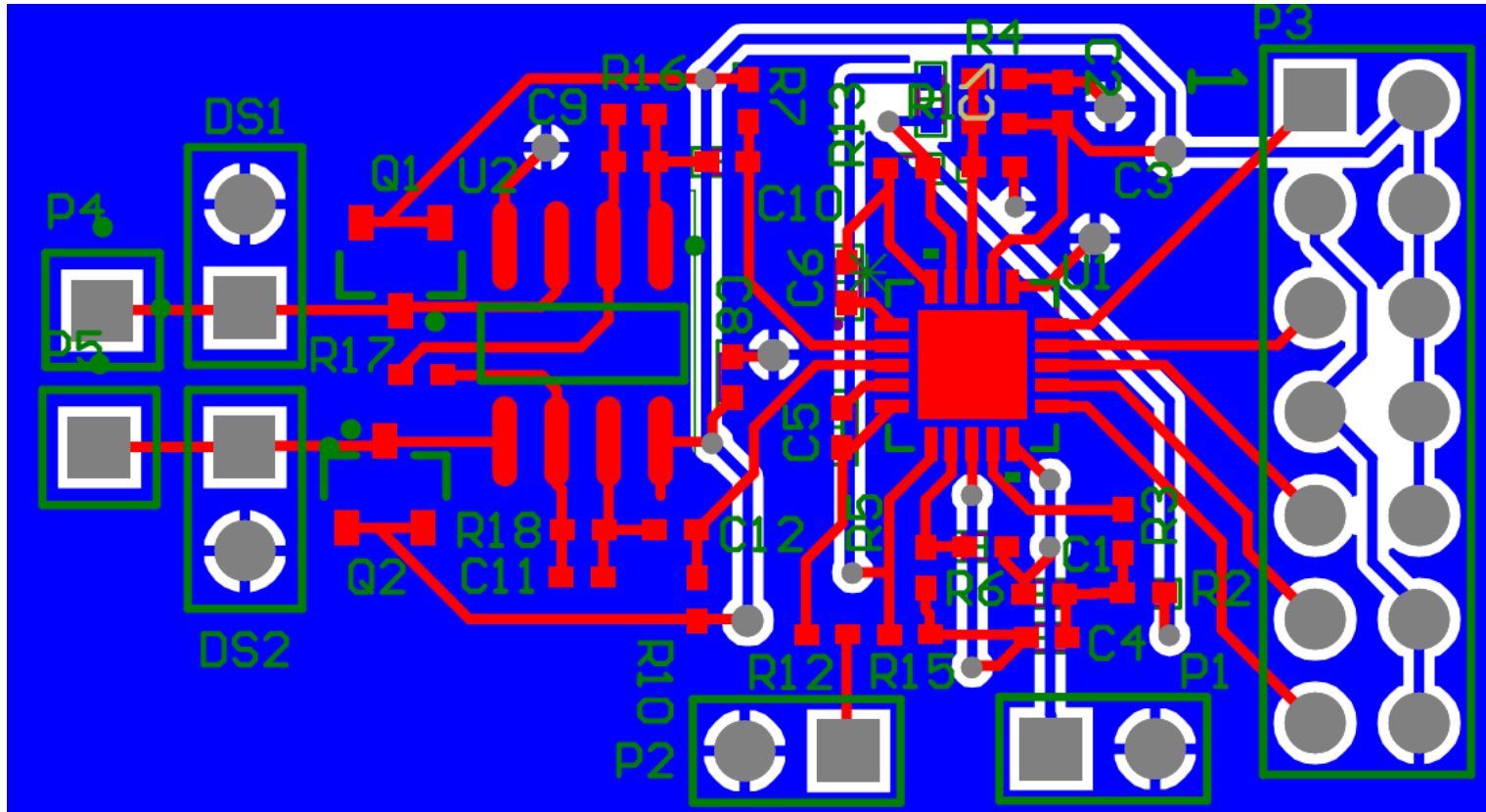
The first hardware hackathon in China
中国的第一次硬件黑客马拉松



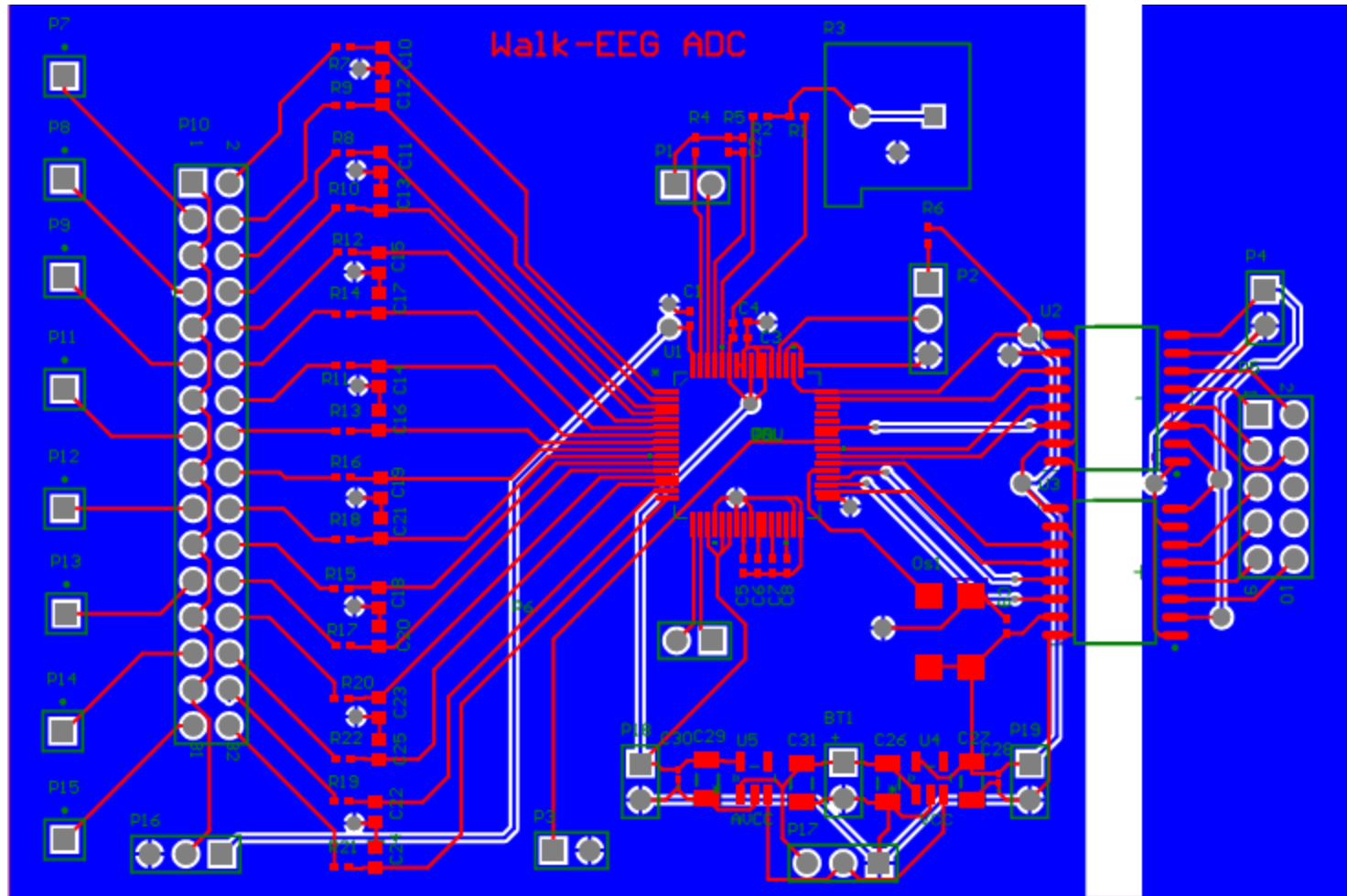
Now we have done

- 1. Pre-amplify design
- 2. Buy develop board(Altera FPGA + USB2.0)
- 3. Study BCI2000

Pre-amplify



ADC broad



USB2.0 High Speed Transfer

FPGA+USB开发板



易津电子

Now we have to do

- 1. Debug Pre-Amplify
- 2. Develop broad usage
- 3. Open source software base on BCI2000
- 4. Control peripheral.

THE ONES
WHO ARE
CRAZY
ENOUGH TO
THINK THEY
CAN CHANGE
THE WORLD,
ARE THE
ONES THAT
DO

So, Joining us, Enjoy it

