

pentabug and pentarm13uxx

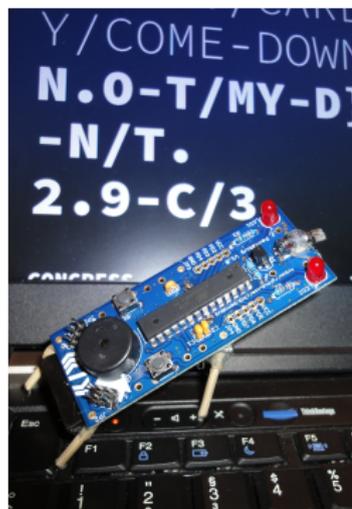
unadulterated fun with microcontrollers
(for everyone)

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pentabug - beep. rattle. narf.



- ▶ battery powered ATmega88P
- ▶ LEDs, switches
- ▶ piezo buzzer, vibration motor
- ▶ ISP, USART
- ▶ extension connectors

- ▶ entry level project for beginners
- ▶ 100 bugs built at Datenspuren 2012

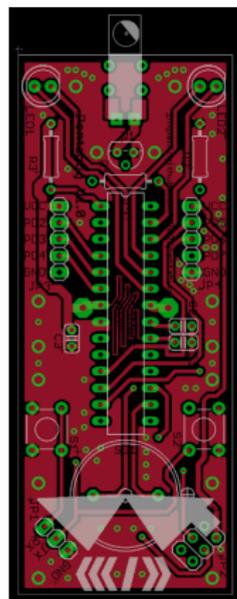


Being nice to novices

- ▶ easy to solder (even 10yo kids have done it)
- ▶ just about EUR 8-10 for parts
- ▶ make it beep and blink with 5-10 LOC

moar hacking fun with:

- ▶ using buzzer as mic and
- ▶ LEDs as light sensor
- ▶ experiment with USART
- ▶ advanced sound synthesis



pentarm13uxx - small ARM development board

when you crave for more:

- ▶ template project for NXP LPC1347 (32-bit ARM Cortex-M3)
- ▶ intermediate SMD soldering skills
- ▶ some 0402 components
- ▶ getting started with ARM development



Thank you for listening! Questions?

Please meet us at the C3D2 table at the hardware hacking area or at our workshops.

<http://events.ccc.de/congress/2012/wiki/Pentabug>
<http://events.ccc.de/congress/2012/wiki/Pentarm13uxx>

Many THX to 2bt, _john and thammi.

