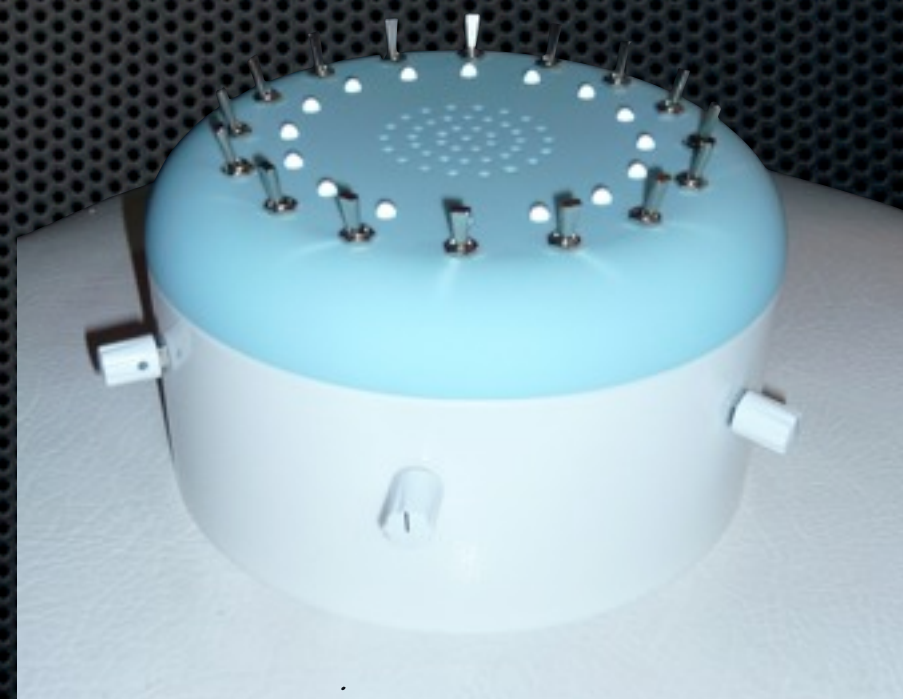
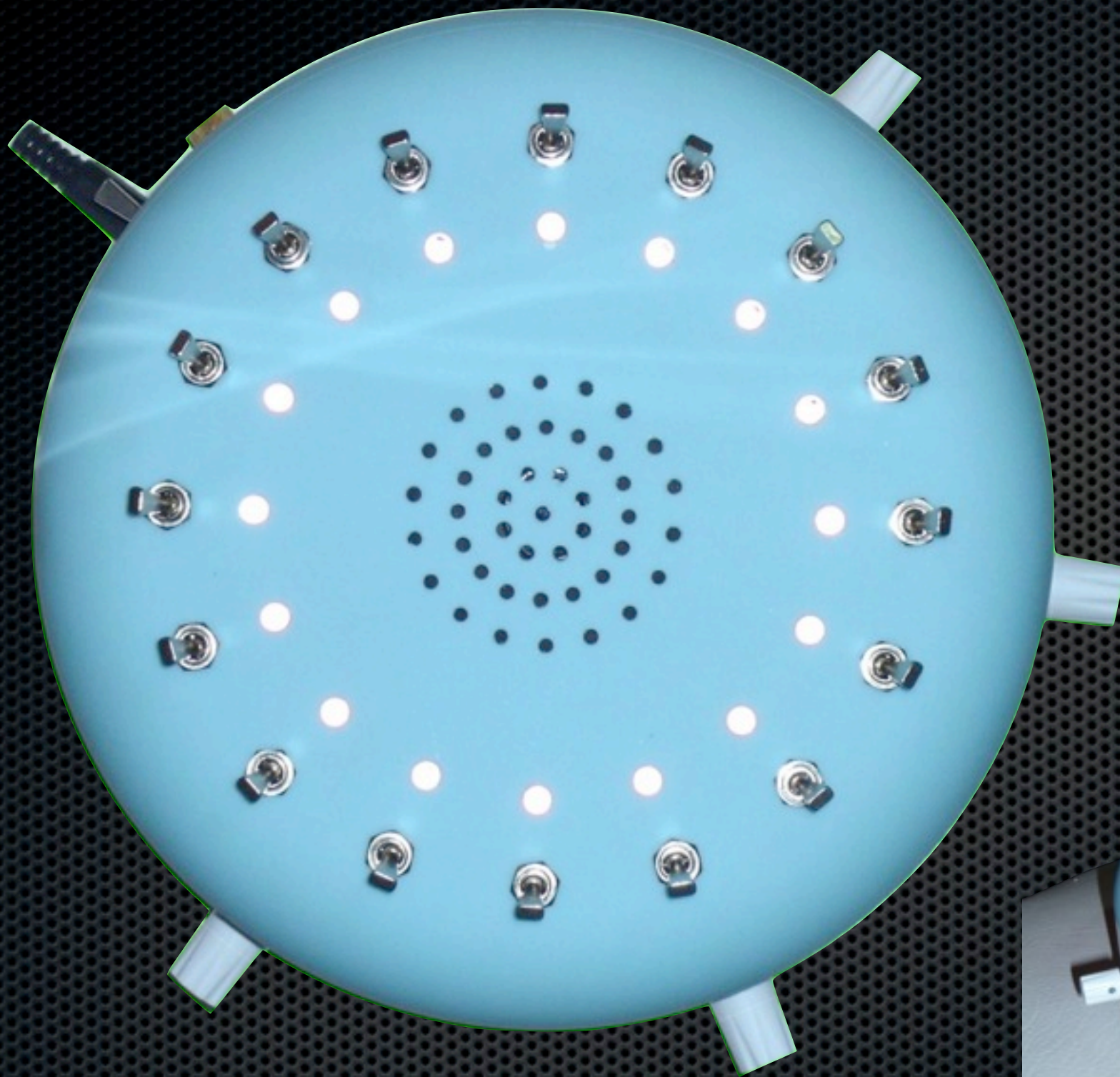


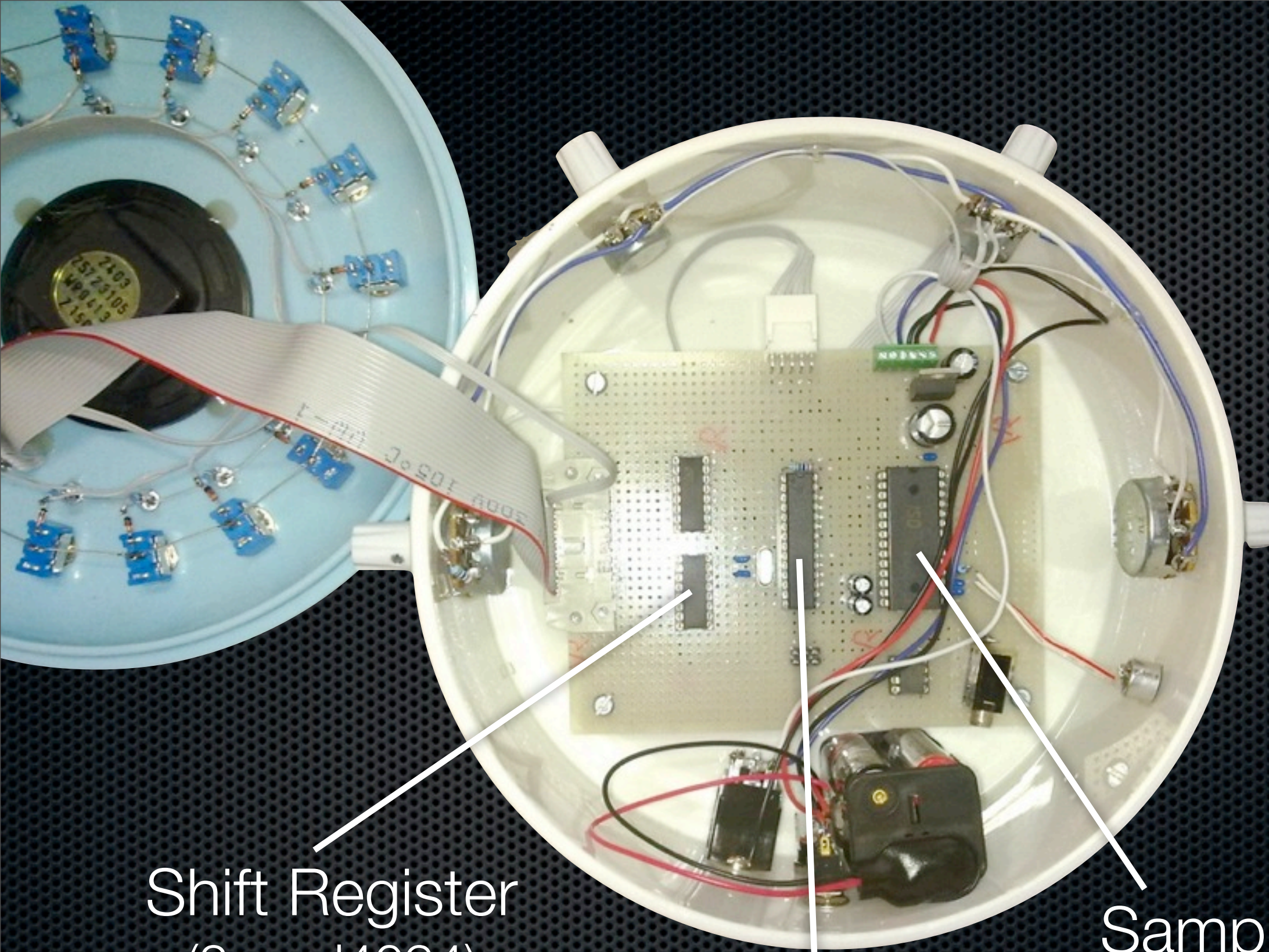
Granular Synthesizer Sequenzer

Urs Gaudenz









Shift Register
(2 x cd4094)

uP
(ATmega168)

Sampler Chip
(ISD4004)



radiooperator599

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Das
Musikding

<http://www.musikding.de>

Rechtliche Informationen des Verkäufers

LEDStyling e.K.
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66955 Pirmasens
Deutschland

Ust.-IdNr. DE 246612611

Handelsregister: HRA30117

LEDStyling.de

E-Mail: kontakt@LEDStyling.de

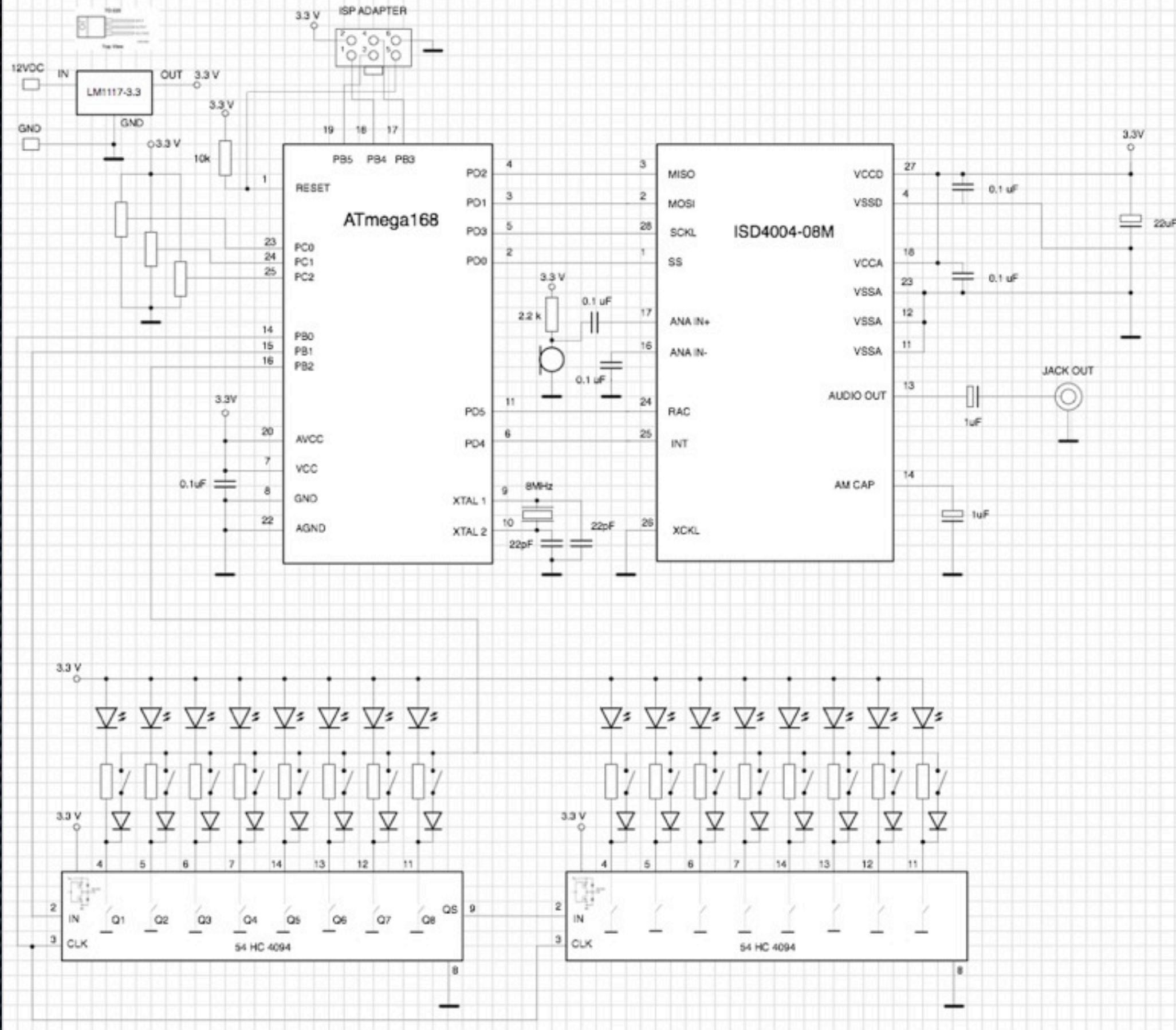


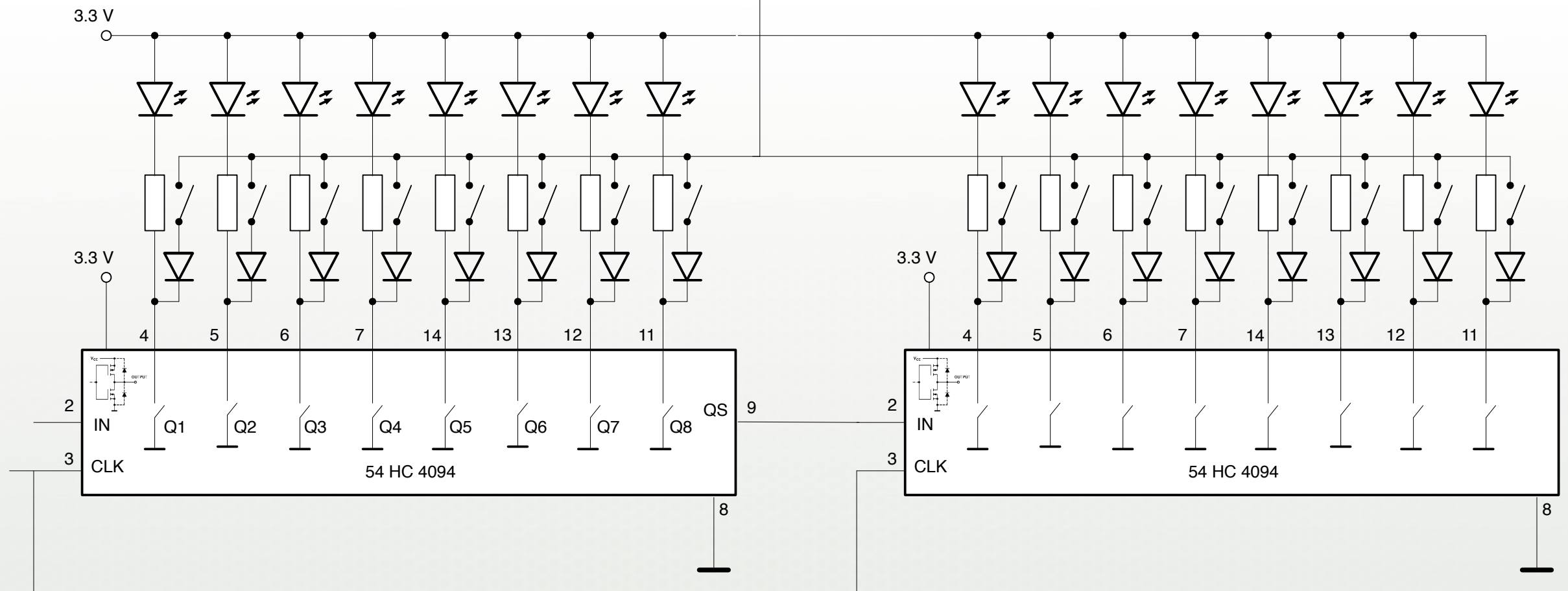
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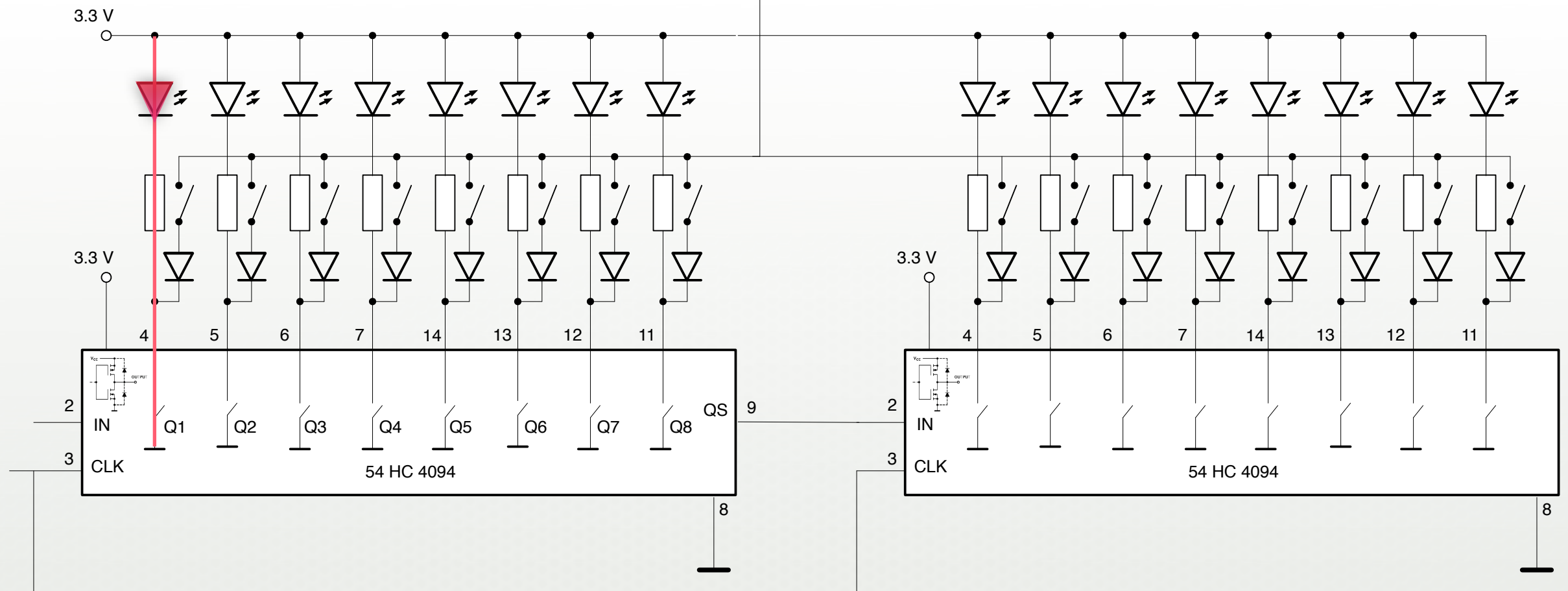


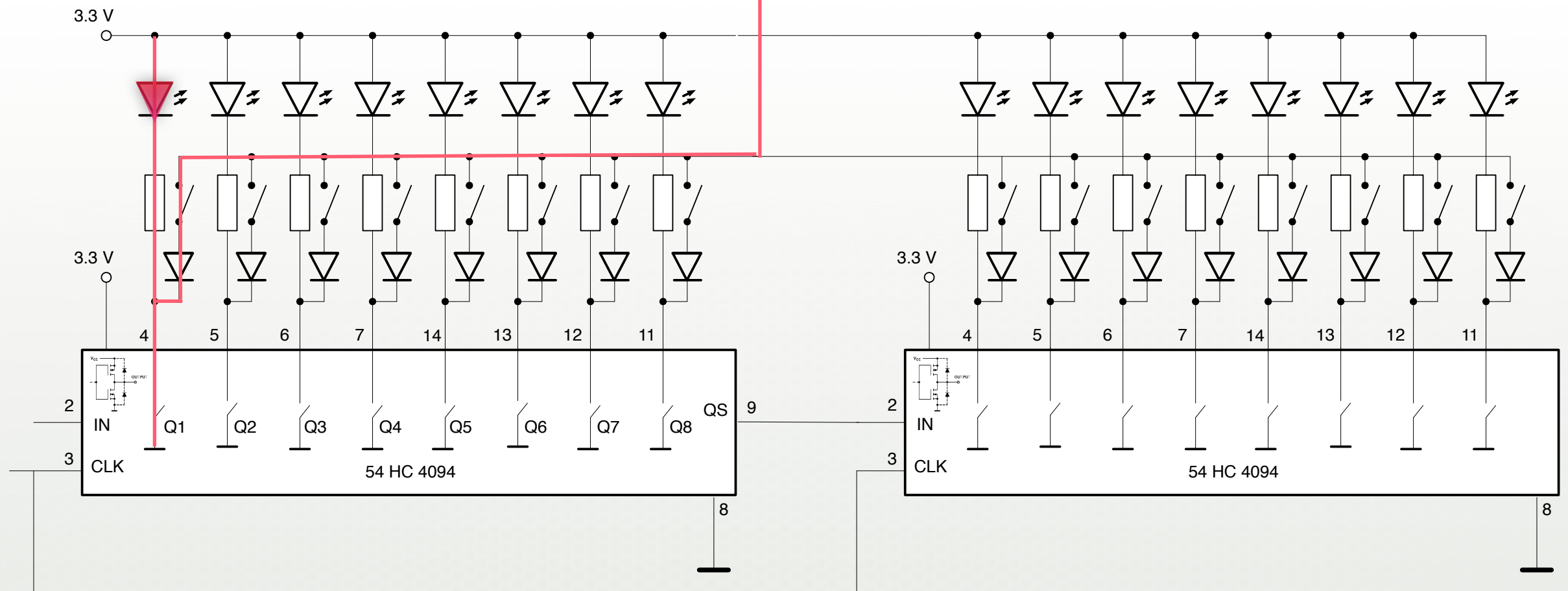
GRANULAR SYNTHESIZER SEQUENZER - ISD4004 SAMPLER

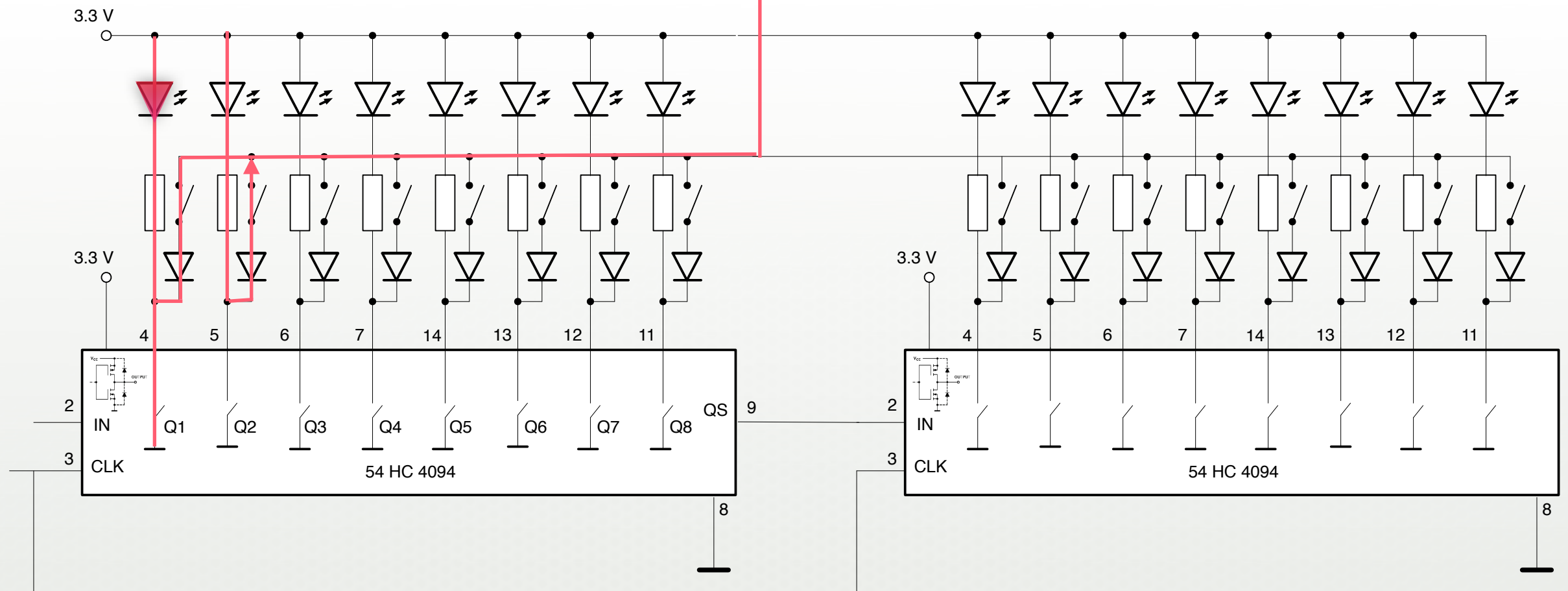
2009, Urs Gaudenz gaudich





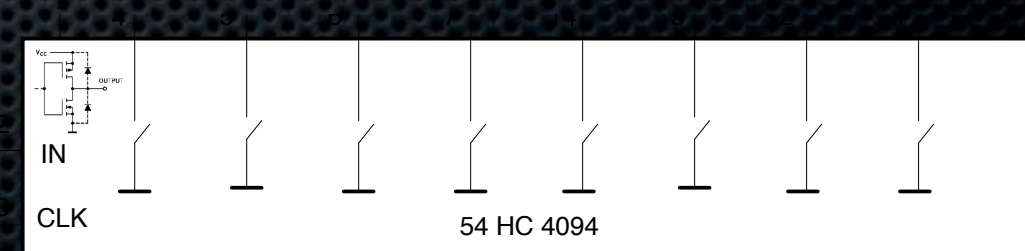
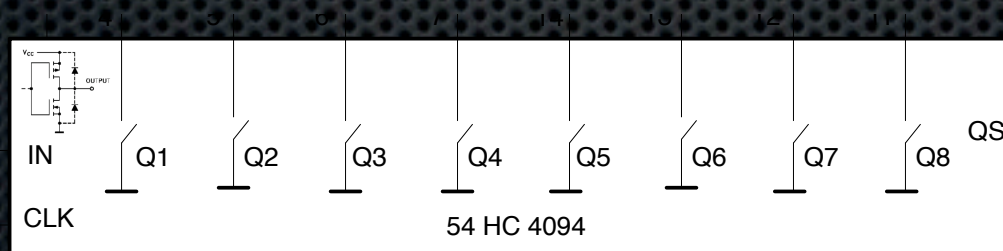






ISD4004 Data-Sheet

Instructions	OpCodes		Descriptions
	Address (16 bits) <A0 – A15>	Control bits (8 bits) XXX C0 C1 C2 C3 C4	
POWERUP	<XXX.....XXX>	XXX 0 0 1 0 0	Power-Up: Device will be ready for an operation after T_{PUD} .
SETPLAY	<A0 – A15>	XXX 0 0 1 1 1	Initiates playback from address <A0-A15>.
PLAY	<XXX.....XXX>	XXX 0 1 1 1 1	Playback from the current address (until EOM or OVF).
SETREC	<A0 – A15>	XXX 0 0 1 0 1	Initiates a record operation from address <A0-A15>.
REC	<XXX.....XXX>	XXX 0 1 1 0 1	Records from current address until OVF is reached or Stop command is sent.
SETMC	<A0 – A15>	XXX 1 0 1 1 1	Initiates Message Cueing (MC) from address <A0-A15>.
MC ^[1]	<XXX.....XXX>	XXX 1 1 1 1 1	Performs a Message Cueing from current location. Proceeds to the end of message (EOM) or enters OVF condition if no more messages are present.
STOP	<XXX.....XXX>	XXX 0 1 1 X 0	Stops the current operation.
STOPPWRDN	<XXX.....XXX>	XXX X 1 0 X 0	Stops the current operation and enters into standby (power-down) mode.
RINT ^[2]	<XXX.....XXX>	XXX 0 1 1 X 0	Read Interrupt status bits: Overflow and EOM.




```
#define / #include
```

```
void write_pattern(uint16_t c)  
Write pattern to LEDs
```

```
uint16_t read_pattern(void)  
Read Switches
```

```
void senden_command_8(uint8_t c)  
Send 8 bit Command to Sampler
```

```
uint16_t senden_command(uint8_t c, uint16_t a)  
Send 16 bit Command to Sampler
```

main
RECORD
LOOP

*Copy & Paste
Try & Error*

AVRISP mkII - In-System Programmer



avr-gcc (GCC) 4.3.0
Compiler

```
Terminal — tcsh — ttys000
[GaudiBook:~] gaudi% cd Projekte/Sequencer/
[GaudiBook:~/Projekte/Sequencer] gaudi% cd Sequencer/
[GaudiBook:~/Projekte/Sequencer/Sequencer] gaudi% make

----- begin -----
avr-gcc (GCC) 4.3.0
Copyright (C) 2008 Free Software Foundation, Inc.
This is free software; see the source for copying conditions. There is NO
warranty; not even for MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.

Size before:
sequencer.elf :
section      size      addr
.text        2182      0
.bss         19       8388864
.eeprom       2       8454144
.stab        6456      0
.stabstr      884      0
.debug_aranges 32      0
.debug_pubnames 284      0
.debug_info   2796      0
.debug_abbrev 418      0
.debug_line   1924      0
```

avrdude
Up-/Downloader

```
AVRISP mkII
File Settings Help
ATmega168 Fuses
Flash
/Users/gaudi/Projekte/SCMK/Dock185/Sequencer/Sequencer.elf File auto
Write Read Verify
EEPROM
/Users/gaudi/Projekte/Theremin/Reflow/reflow.eep File auto
Write Read Verify

Applications/Arduino-0012/hardware/tools/avr/bin/avrdude -q -s -C /usr/local/etc/avrdude.conf -p m168 -P usb -c avrisp
avrdude: Version 5.4-arduino, compiled on Oct 9 2007 at 11:20:31
Copyright (c) 2000-2005 Brian Dean, http://www.luddmicro.com/

System wide configuration file is "/usr/local/etc/avrdude.conf"
User configuration file is "/Users/gaudi/.avrduderc"
User configuration file does not exist or is not a regular file, skipping

avrdude: WARNING: -E option not supported by this programmer type
Using Port : usb
Using Programmer : avrispmkII
avrdude: usbdev_open(): did not find any USB device "usb"
```