

# I can do science me!

## Table of contents

1 Small thesis (Studienarbeit).....	2
2 Diploma thesis (Diplomarbeit).....	2

Yes, back in [university](#) I did some science...(almost) all by myself. Here is a selection of documents from my small thesis and diploma thesis.

## 1 Small thesis (Studienarbeit)

In this work I created a complete C development environment under Linux for a DSP-based parallel computer called [ER2](#). Fully assembled with 256 ADSP-2181 and 256 SHARC-2106x it had a computing power of about 12+16 GOPS, theoretically. One of my findings was that you could not get data in and out fast enough, if at all...sigh.

### Small thesis

My small thesis.

### er2p

The Linux device driver for accessing the ER2.

### er2

A library, offering higher functions for detecting the network topology, loading and starting programs...

### er2sh

Another library on top, especially for the SHARC modules.

### libcref

Reference of all libc functions for the g21k compiler that was adapted for this project.

### Pictures

Some pictures of the ER2 and its modules.

## 2 Diploma thesis (Diplomarbeit)

My diploma thesis was somewhat more straightforward and software-oriented (-> no pictures and less documentation). I developed a small "expert system" or better, a simple inference engine. It can give recommendations to a user, being confronted with an input mask cluttered with obscure parameters.

### Diploma thesis

My diploma thesis in PDF format.