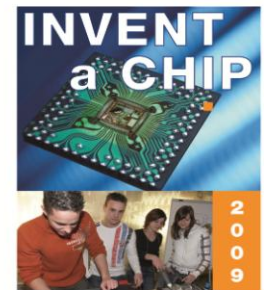


THE ANTI-ANBRENN-CHIP WITHIN THE CONTEST INVENT-A-CHIP

Regina Hartfiel

8th European Workshop on
Microelectronics Education 2010



Eine Initiative von



VDE

CONTENTS OF THE PRESENTATION

- Idea and participation
- Workshop in Hannover
- Chip development
- My own chip idea
- The final phase of the contest



IDEA AND PARTICIPATION

- Individuals or teams with up to 4 persons
- Adolescents of grade 8-13
- Answers to the questionnaire
- With or without a chip idea
- Selection of the 12 best answered questionnaires and chip ideas



WORKSHOP IN HANNOVER

- Presentation of the integrated development environment and the procedure of chip design
- Discussion with our tutors and planning of the project
- Exchange with other teams



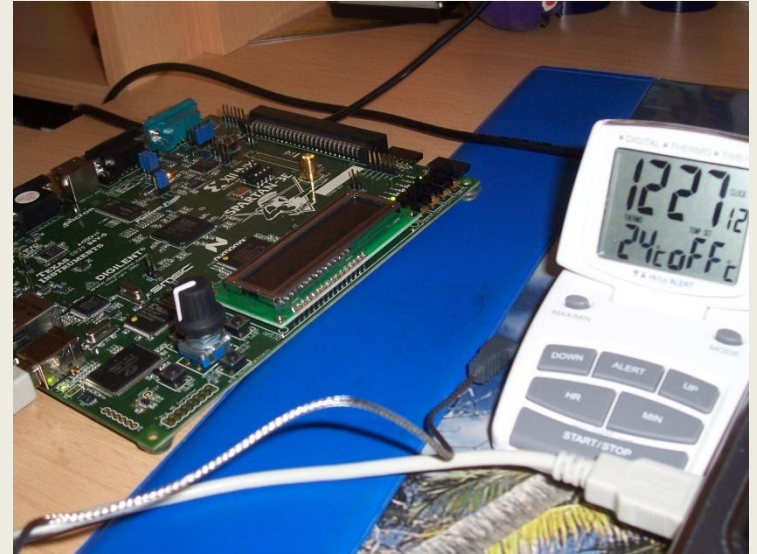
CHIP DEVELOPMENT

- Realisation of the chip idea in four months
Software: ModelSim und Xilinx ISE
HDL: Verilog
- Exchange with our tutors through a forum
- Regular code review
- Documentation of the progress



MY OWN CHIP IDEA

- „Anti-Anbrenn-Chip“ prevents the burning of food during the cooking
- Analysis with a temperature sensor
- Digital output of measurements on a display
- Visual and acoustical alert



THE FINAL PHASE OF THE CONTEST

- Awards ceremony and presentation at the congress for Microsystems in Berlin
- Visit of the Fraunhofer-Institute





END OF THE PRESENTATION



THANK YOU FOR YOUR ATTENTION!

