



Student in Computer Science or Computer Engineering?

Find topics for internships/BSc/MSc theses: www.imms.de/students



A SELECTION OF OUR CURRENT LIST OF TOPICS:

Evaluation of Algorithms for Runtime Power Modeling of Digital Circuits

Task: Simulation | AI implementation | Software development

Implementation of a Latch-based PullUp-Emulator Circuit

Task: Hardware design of integrated circuits | Simulation

Technology Mapping of Digital Circuits

Task: Software development | Hardware design of integrated circuits

Development of a Generator for PCB Footprints from ASIC Layout Data

Task: Software development | Hardware design of printed circuit boards | Hardware design of integrated circuits

Design of a sigma-delta ADC in a 180nm technology

Task: Simulation | Hardware design of integrated circuits

Simulation-Assisted State Re-Coding for Power Reduction of Digital Circuits

Task: Simulation | Software development | Hardware design of integrated circuits

Machine learning based prediction of critical paths in digital circuits

Task: AI implementation

Labelling Platform for Design Data

Task: AI implementation | Software development | Hardware design of printed circuit boards | Hardware design of integrated circuits

Layout generation for DRC and LVS Tests

Task: Software development

During your studies, you can contribute to our ongoing research projects. Join us in pushing the limits of what is technically feasible and be part of breaking new ground together. We offer a variety of challenging and practice-oriented topics for mandatory internships, Bachelor's or Master's theses in microelectronics, mechatronics or system design. You will analyse important scientific preliminary questions and support the project teams with development activities.

YOUR BENEFITS WITH US

- Get practical training and use it as study credit.
- Receive best and individual support.
- Get theoretic in-depth knowledge of methods for the practical implementation of you solution.
- Work on challenging research subjects.
- Use our extensive technical equipment that meets industrial standards.

WE HELP YOU TRAIN YOUR SKILLS IN

- Software development
- AI implementation
- Design of control/regulation algorithms
- μ C and FPGA programming
- Systems simulation

All topics: www.imms.de/students

You can flexibly integrate start and duration of each topic into different periods of study. Many of them can be arranged as mandatory internships, BSc or MSc theses.

