



Technische Universität
Braunschweig



PhD Student Position in the field of

Design of Advanced Mass Storage Systems for Space Applications

The Spaceborne Computers Group of the Institute for Computer & Communication Engineering offers a possibility to work as “wissenschaftlicher Mitarbeiter” at the Institute on research topics related to spaceborne mass memories.

The group is active in design of computers and mass memories for space applications since 35 years and has contributed to many international space missions (ESA, NASA, JAXA) with electronics units. More information can be gained on the web site of the institute (www.ida.ing.tu-bs.de).

Currently the technology for spaceborne mass memories is based on use of commercial SDRAMs. New developments in memory technology like non-volatile Flash devices are highly attractive for future advanced systems. The drawbacks of applying new device technologies in space are that the system architecture needs to be adapted and the devices need to be characterised for their behaviour under space environment. Related to these drawbacks, new methods for error correction means and failure tolerant design of mass memories have to be developed.

We are looking for an excellent, just graduated student with university degree in electrical engineering or computer science, who is experienced in topics like Error Correcting Codes, Firmware design in VHDL and is also skilled in general electronics design. As working language English is required, the willingness to improve German language skills would be appreciated.

The position is fully paid according to the German tariff for civil servants (TDL 13). It is dedicated to the work in research projects of the group and includes the possibility to achieve a doctoral degree in Engineering of the Faculty of Electrical Engineering, Information Technology and Physics at the Technische Universität Braunschweig.

Interested persons should contact:

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