



Master Thesis: Firmware Development for an Advanced Stress Test Controller

Job description

You are motivated master student (f/m/div*) in the area of Informatics, Telematics or Information technology, favorably familiar with embedded software design and want to write your Master Thesis at Infineon? At KAI GmbH, you will perform your thesis project in an industrial research environment, guided and supported by experienced researchers in such diverse areas as hard- and software design, simulation, modeling and semiconductor technology. We work in close cooperation with universities and research facilities supporting your academic education, whereas our industrial partner Infineon offers interesting opportunities for a prospective career path in the semiconductor industry.

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During your thesis project, we will guide you to become an outstanding expert for embedded controllers that will be applied at KAI and Infineon for stress testing of advanced power semiconductors. Your work will focus on these particular tasks:

- **Learn** about the **structure** and **design** of semiconductor **reliability stress test systems** and execution of life tests.
- **Improve** your **skills** in **firmware development** for an embedded system
- **Develop** a **firmware** for an available advanced stress test controller together with your supervisor.
- **Evaluate** and **test** a working **prototype controller** based on existing hardware and the developed firmware.
- **Document** your **results** by writing and submitting your Master thesis

Further information:

Duration: Temporary / Full-time

Start: August 2020

Profile

You are master student in the area of **Informatics, Telematics or Information technology**, favorably familiar with **embedded software design**. You have a strong ambition for developing advanced system concepts and implementing them on embedded target hardware. You should also:

- Provide some knowledge and experience in **software design** (C, LabVIEW)

At a glance

Location: **Villach**
Job ID: **304501**
Start date: **immediately**
Entry level: **0-1 year**
Type: **Full time**
Contract: **Temporary**

Apply to this position online by following the URL and entering the Job ID in our job search:

Job ID: **304501**
www.infineon.com/jobs

Contact

Julia Gabriel
Student Attraction Manager



- Be able to work and communicate well with our international team in **English** and/or **German**

This position is subject to the collective agreement for workers and employees in the electrical and electronics industry. Master students receive a compensation of **2.242,19 Euro** gross p.m. (full-time basis).

Please attach the following documents (german or english) to your application:

- Motivation letter
- CV
- Certificate of matriculation at a university
- Transcript of records
- Highest completed educational certificate (Matura certificate for Bachelor students, Bachelor certificate for Master students)
- Reference letter

