



## Master Thesis: Development of an Evaluation Module for Automotive Power ICs

### Job description

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, modelling 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.

During your thesis project, we expect you to become a growing expert for electronic hardware design, with a strong focus on the Development of an Evaluation Module for Automotive Power ICs.

Therefore, you will need to acquire special knowledge and perform dedicated tasks:

- Learn about types and characteristics of advanced power semiconductors of Infineon products
- Improve your skills in developing a concept design for an application related evaluation module
- Design, build and evaluate a hardware prototype
- Enhance your skills in circuit simulation and PCB layout design
- Document your results by writing and submitting your Master thesis

### Further Information

Start: November 2021

Type of employment: Temporary / Full-time (Flexible working hours from Monday to Friday between 6 a.m. and 7 p.m.)

Duration: min. 8 months

**This thesis has to be written in cooperation with an university.**

### Profile

You are a master student in the area of **electrical engineering** or **similar** and you have completed most or all of your exams.

You should also offer:

- Strong ambition for **application and systems engineering** and the ability to make things work
- Some work experience already in the area of **hardware design** and **circuit simulation** (e.g. Altium, LTSpice...)

### At a glance

Location: **Villach (Austria)**

Job ID: **332371**

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: **332371**  
[www.infineon.com/jobs](http://www.infineon.com/jobs)

### Contact

**Nico Steinhäuser**

Student Talent Attraction Manager



- Structured **project work experience** in a team with the help of version control and quality assurance tools as a plus (e.g. Git, Bitbucket, Jira...)
- Fluent communication skills in **English** and / or **German**

This position is subject to the collective agreement for workers and employees in the electrical and electronics industry (full-time), employment group D for master students (<https://www.feei.at/leistungen/informations-service/mindestlohne-und-gehalter-2020>).

**Please attach the following documents (English or German) 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

