



Internship: Mixed-Signal System Validation laboratory support of Power Management Systems for next generation multi-core microcontrollers

Job description

In general we are looking for students with the willingness to work in a challenging environment within a highly motivated international team. This specific job is suitable for students within technical studies in the field of electronic engineering.

State-of-the-art and complex **microcontroller systems** demand for **cutting-edge validation techniques** and a high amount of **automatization** to fulfill the increasing functionality and cope with the increasing complexity implemented on such systems. In this project, the goal is to evaluate the performance of **analog mixed-signal modules** present in **automotive microcontroller systems**.

Main tasks of this proposal can be summarized as:

- Understanding and getting familiar with latest generation **automotive microcontroller systems** and their peripherals
- Implementation of proof-of-concept/sample source code in **C** and **C++** on a **32bit** platform (main CPUs) as well as on an **8bit** platform (standby controllers)
- Support of Validation for next generation **automotive microcontrollers** in the field of **Power Management Systems** (reset generation, voltage generation w/ DCDC converters and linear regulators, voltage monitoring, temperature monitoring)
- **Voltage detectors** and **ADC characterization**
- **Test automation** (control of test equipment)

Start: 01.07.2018

Work time: full time, 6 months - with option for contract extension

This position is subject to the collective agreement for workers and employees in the electrical and electronics industry. The salary for this position is € 1.885,- gross p.m. (full-time basis) for Bachelor's students and € 2.210,- gross p.m. (full-time basis) for Master's students.

Profile

In general we are looking for students with the willingness to work in a **challenging environment** within a highly motivated **international team**. This specific job is suitable for students within **technical studies** in the field of **electronic engineering**.

As our ideal candidate, you offer additionally:

- Experience in using **lab equipment**
- Know-How about **Microcontroller programming**
- **Matlab, Excel**
- **C, C++**
- **German language proficiency**

Please attach the following documents to your application:

- Motivation letter

At a glance

Location:	Villach
Job ID:	28760
Start date:	immediately
Entry level:	Internship
Type:	Full time
Contract:	Temporary

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Contact

Julia Gabriel



- CV
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- Copy of your Transcript of records
- Copy of the highest completed educational certificate (Matura certificate for Bachelor students, Bachelor certificate for Master students)

