



Master Thesis Topic: Application Engineer

Job description

We are looking for students (f/m/div)* studying in the field of Power Electronics, Electrical Engineering or similar with the willingness to work in a challenging environment within a highly motivated international team. Apply now for this internship in Villach and support our team!

One of the big challenges of the home appliances today is making **power switches** that are easy to use for the customer. This is especially true, when talking about **EMI noise**, which is **caused by the electronic components** and **limited by the governmental policies**. EMI noise is **influenced by several building blocks** that defines the inverter you can find in some home appliances. In your internship you are going to tackle this challenge and **analyse the selected reference inverter** to understand which building block has the **highest** and the **lowest impact** on the conducted EMI noise produced by the appliance. It is also possible to write your bachelor or master thesis during this internship. Your tasks will include:

- Parameterizing the **real reference board** using an existing EMI simulation model
- Validating the **model in the EMI chamber**
- **Improving the model** if needed to match the real measurements
- **Analyzing the EMI response** by changing some building block parameters

Further Information:

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

Duration: min. 6 months

Profile

You are a motivated student (f/m/div)* in the field of **Power Electronics, Electrical Engineering** or similar. You are best equipped for this task if you have:

- Interest for an **in-depth understanding** of **product development** in the industrial semiconductor industry
- Good understanding of **power electronics**
- Good understanding of **simulation tools** (Matlab, PLECS, Spice,)
- **A structured way of working** with good **analytical thinking**
- Fluent communication skills in **English** and/or **German**

At a glance

Location: **Villach (Austria)**
Job ID: **339829**
Start date: **as soon as possible**
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: **339829**
www.infineon.com/jobs

Contact

Nico Steinhauser
Student Talent Attraction Manager



This position is subject to the collective agreement for workers and employees in the electrical and electronics industry (full-time), employment group B for bachelor students, employment group D for master students (<https://www.feei.at/wp-content/uploads/2022/05/minimum-salaries-white-collar-workers-2022.pdf>).

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

Benefits

- **Villach:** Coaching, mentoring networking possibilities; Wide range of training offers & planning of career development; International assignments; Different career paths: Project Management, Technical Ladder, Management & Individual Contributor; Flexible working conditions; Home office options; Part-time work possible (also during parental leave); Sabbatical; Child care in Villach & Klagenfurt; On-site social counselling and works doctor; Health promotion programs; On-site canteen; Private insurance offers; Wage payment in case of sick leave; Corporate pension benefits; Flexible transition into retirement; Performance bonus; Accessibility, access for wheelchairs

Why Us

Part of your life. Part of tomorrow.

We make life easier, safer and greener – with technology that achieves more, consumes less and is accessible to everyone. Microelectronics from Infineon is the key to a better future. Efficient use of energy, environmentally-friendly mobility and security in a connected world – we solve some of the most critical challenges that our society faces while taking a conscientious approach to the use of natural resources.

Industrial Power Control (IPC) empowers a world of unlimited energy - Power semiconductors play a crucial role in increasing efficiency and reducing energy losses along the whole energy conversion chain. As the global leader in power semiconductors, Infineon IPC delivers leading products and solutions for smart and efficient energy generation, transmission and consumption. We strive to make this planet a greener place where sufficient energy is accessible to everyone – wherever and whenever they need it.

** The term gender in the sense of the General Equal Treatment Act (GETA) or other national legislation refers to the biological assignment to a gender group. At Infineon we are proud to embrace (gender) diversity, including female, male and diverse.*

Infineon Hub - Connect. Create. Challenge.

The iHub at TU Wien represents an inspiring tech platform, networking area and event location, connecting Infineon Austria with tech experts, science specialists and young professionals.

Check out our upcoming events:

[Infineon iHub](#)

