



## Master Thesis: Sensor Systems for Safe and Reliable Autonomous Robotic Vehicles

### Job description

We are looking for motivated and committed students (f/m/div)\* who are willing to learn new things and work in an innovative company acting on a global scale. An exciting working environment characterizes this internship as well as an attractive salary. Apply now for this internship in Villach and support our team.

During your thesis project, we expect you to become a growing expert for sensor systems for the fast growing market of **autonomous robotics**. This means you will need to acquire some special knowledge:

- Learn about technologies available today for **environmental sensing**
- Improve your skills in **data acquisition** and **signal processing**

Furthermore you will perform the following tasks:

- Evaluate the existing **sensor systems** for **mobile** and **collaborative robots** together with your supervisors and partner universities
- Develop a **smart sensing system** for **mobile robots**
- Apply this methodology to an existing **mobile robot platform**
- Document your results by writing and submitting your Master Thesis

### Further Information

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

Duration: min. 6 months

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

### Profile

You are a master student covering the area of **Electronics, Robotics, Mechatronics, Control Engineering, Cybernetics** or similar with a strong ambition for sensing technologies, signal processing, software-programming and making things work. You are best equipped for this task if you additionally:

- Have completed all of your exams
- Provide some knowledge and experience in **sensors** and **actuators**
- Be able to communicate well with our international team in **English** and **German**

### At a glance

Location: **Villach (Austria)**  
Job ID: **358930**  
Start date: **Sep 01, 2022**  
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: **358930**  
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### Contact

**Nico Steinhauser**  
Student Talent Attraction Manager



- Have good **communication** and **organization skills**

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/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 (optional)

## 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.**

Infineon is a world leader in semiconductor solutions that make life easier, safer, and greener. Our solutions for efficient energy management, smart mobility, and secure, seamless communications link the real and the digital world.

**–Power & Sensor Systems (PSS) drives leading-edge power management, sensing and data transfer capabilities –**

Infineon PSS semiconductors play a vital role in enabling intelligent power management, smart sensitivity as well as fast and reliable data processing in an increasingly digitalized world. Our leading-edge power devices make chargers, adapters, power tools and lighting systems smarter, smaller, lighter and more energy-efficient. Our trusted sensors increase the context sensitivity of “things” and systems such as HMI, and our RF chips power fast and reliable data communication.

*\* 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.

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[Infineon iHub](#)



