



Internship/Master Thesis – Swarm Intelligence for Autonomous Systems (f/m) AT RHEINMETALL AIR DEFENCE IN ZÜRICH

WHAT WE ARE LOOKING FOR

- Definition and implementation of the communication interface between drones and of the relative localization algorithms
- Design and implementation of a rule-based system for swarm coordination
- Implementation of the drone control software on a Linux-based single board computer
- Conduction of field-tests with our drone prototype

WHAT QUALIFICATIONS YOU SHOULD HAVE

- Bachelor/Master student in computer science / information engineering or electrical/robotics engineer with very good programming skills
- Good understanding of agent-based systems and/or prior experience with robot swarms behavior descriptions
- Experience with Python and/or C/C++ programming
- Solid conceptual understanding of Inter Process Communication and/or the TCP/IP Stack (Knowledge in Distributed Systems or Server-Side Web Development are a plus)
- Ability to solve challenging technical problems independently and to coordinate efficiently in a cross-disciplinary team
- Prior experience with development on embedded Linux Platforms, Drone Platforms and/or Single Board Computers (e.g. Raspberry Pi) is a strong plus
- Very good knowledge of German word and writing
- Knowledge or practical experience in the following topics is a plus: Machine Learning / Computational Geometry / Signal Processing

JOB INFORMATION

- Ref. no.: **CH00238**
- Working hours: **Full Time**
- Contract type: **Internship**

**APPLY
ONLINE NOW!**

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CONTACT INFORMATION

- Contact: Frau Meier
- Phone: +41 79 798 71 96

WHO WE ARE

Digitalisation, networking, cyber – the Electronic Solutions division covers the entire chain of effects in the system network: from sensors and the networking of platforms and soldiers to the (partially) automated connection of effectors. This is complemented by solutions for protection in cyberspace. Other fields of activity of this Rheinmetall division include comprehensive training and simulation solutions, to which the company contributes over 40 years of experience. Furthermore, there are operator solutions for aircraft. The division is divided into the following business units: Air Defence & Radar Systems, Integrated Electronic Systems and Technical Publications.

Rheinmetall AG, publicly listed and based in Düsseldorf, Germany, is a powerful, internationally successful corporation. As an integrated technology group, Rheinmetall is a market leader in the areas of environmentally friendly mobility and threat-appropriate security technology. Rheinmetall commands a foremost position as a global first-tier supplier to the automotive industry for modules and systems. Furthermore, Rheinmetall is Europe's foremost supplier of defence and security technology and a longstanding partner of the armed forces.

ABOUT THE COMPANY

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