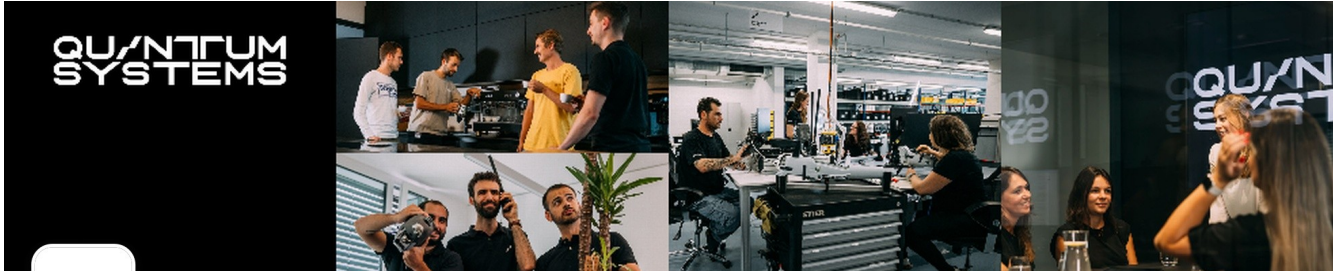




Was Jobtitel oder Unternehmen

Wo Regensburg

Jobs finden



QUANTUM SYSTEMS

Embedded Software Engineer for N3XT Department (m/f/d)

Quantum- Systems GmbH [↗](#)

Gilching

Vollzeit

Schnellbewerbung

Gespeichert



Informationen zum Profil

Gleichen Sie hier die Qualifikationen für den Job mit Ihrem [Profil](#) [↗](#) ab.



Fähigkeiten

Schemata Git C++ C

Haben Sie Berufserfahrung im Bereich **Schemata**?

Ja

Nein

Überspringen



Ausbildung

Master Bachelor

Haben Sie Folgendes? **Master**

Ja

Nein

Überspringen



Sprachen

Englisch

Haben Sie Kenntnisse in **Englisch**?

Ja

Nein

Überspringen

Stellenbeschreibung

Gleichen Sie hier die Stellenbeschreibung mit Ihrem [Profil](#)  ab.



Anstellungsart

✓ Vollzeit ▼

Arbeitsort



Gilching

Vollständige Stellenbeschreibung

About the Role

As an **Embedded Software Engineer**, you will be at the forefront of developing the next generation of intelligent flight systems at Quantum-Systems. Your mission: to design, implement, and iterate embedded software that enables autonomous operation in complex and dynamic environments. From cutting-edge algorithm development to real-world field testing, you will play a key role in shaping the core autonomy capabilities of our aerial platforms.

Working from our headquarters in Munich, you'll collaborate closely with a cross-functional team of hardware, perception, and flight systems engineers. With a hands-on, agile approach to development, you will contribute directly to rapid prototyping cycles, pushing boundaries and delivering impactful solutions that ensure safe and reliable autonomous operations.

What is Your Day-to-Day Mission?

- Design and implement embedded software for a wide range of advanced systems, enabling autonomous operation in dynamic and high-stakes environments
- Develop core capabilities including:
 - Sensor fusion for multi-modal situational awareness
 - Object tracking and identification, target acquisition, and precision guidance
 - Autonomous navigation and real-time path planning
 - Integration with real-time operating systems (RTOS)
- Create novel algorithms and system-level concepts for autonomous decision-making, high-speed targeting, and mission-critical responsiveness
- Collaborate closely with hardware, perception, and flight systems engineers in a fast-paced, iterative

development environment

- Test and validate code across the full development lifecycle — from simulation environments to hardware-in-the-loop setups and live field trials — ensuring robust real-world performance

What You Bring to the Team

- A Bachelor's or Master's degree in Software Engineering, Electrical Engineering, Robotics, or a related field
- Several years of experience working with embedded systems in autonomous or mission-critical domains
- Deep expertise in C/C++ and embedded development on ARM Cortex-M microcontrollers
- Strong understanding of real-time operating systems such as FreeRTOS or uCOS II
- Familiarity with task scheduling, inter-process communication, and multi-threaded software architecture
- Solid experience with hardware communication interfaces (e.g., UART, SPI, I2C, CAN, Ethernet)
- Ability to interpret schematics and bridge the gap between hardware and software constraints
- Proficiency in using version control systems (Git) and collaborative development workflows
- Strong initiative and the ability to independently drive areas of responsibility
- A communicative and solution-oriented mindset, with an eagerness to contribute to a highly technical team
- English language skills at B2 level or higher

Why Join Quantum-Systems?

- Be at the forefront of **next-generation UAV innovation**.
- Work in a fast-paced, agile environment where your ideas make an impact.
- Collaborate with a team of industry pioneers who are ambitious, bold, and visionary.
- Opportunities for individual and professional growth in a globally recognized organization.
- Help shape the future of **aerial technology and data**.

About us:

Quantum Systems specializes in the development, design, and production of small Unmanned Aerial Systems (sUAS). The company's range of electric vertical take-off and landing (eVTOL) sUAS are built to maximize range and versatility and to provide operators with a seamless user experience. By integrating cutting-edge software capabilities, like edge computing and real-time AI-powered data processing, Quantum Systems is

building next-generation UAS for clients in the defense, security, and public sectors.

How to Apply

Please include as your cover letter:

- A detailed description of your **hands-on projects**, including photos, GitHub links, and videos, drawings.

Diesen Job melden

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[Quantum Jobs in Gilching](#)

[Software Engineer Gehälter in Gilching](#)

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