

Junior Software Engineer – Software Group

(Job Reference Number: QSCH2017JB261)

Location: Switzerland, Zürich-Glattbrugg

Date: May 2017

Join the QualySense journey

QualySense, a young Swiss company, is reinventing the global soft commodity market by pioneering the proprietary QSorter® technology, a sophisticated high-speed single-kernel robot, which measures the compositional and physical quality of each grain and sorts it accordingly. The QSorter is the result of outstanding R&D in the field of sensing, mechatronics, biochemistry, data processing and life science along with world-known partners such as the United States Department of Agriculture, EMPA, Agroscope, and ETH. The QSorter analyzes grains at very high speed by means of Near Infrared spectroscopy and 2D/3D imaging. The company, founded in 2010, has been awarded a number of prestigious prizes. We commit to bringing excellence in nutrition, health and safety to people all over the world and we are looking for talents that can help us achieving our mission. (Video: <https://www.youtube.com/watch?v=OF8exqmm8>).

Challenge description

As **Junior Software Engineer** you will be a member of the Software Group within the QualySense R&D Department, reporting to the Team Leader. You will work in a team of talented engineers integrating multiple technologies into a single platform. As part of a multi-disciplinary development effort, you will contribute with your skills, knowledge and experience in working with control software, interfacing, development and building of actual code. You will utilize state-of-the-art development methodologies and tools to create high quality, robust, maintainable and sustainable software. The position offers an excellent opportunity to prove your engineering skills, to be part of a successful startup and, most importantly, to work in a fun environment.

A market competitive salary plus bonus incentives for individual and team achievements are part of the job offer.

Major tasks

- Developing and extending control hardware (e.g. FPGA, RT System, Industrial PC) and development environments
- Building and extending upon software architecture for complex, industrial mechatronic equipment
- Building and maintaining machine control software: coding, testing, deployment, troubleshooting and documentation
- Implementation, integration, testing in maintenance of new software features for new or existing customers
- Refactoring, rewriting and optimization of the existing software in a modular, extendable and maintainable manner
- Troubleshooting and remotely supporting customers
- Supporting internal teams by improving, optimizing and automating internal processes
- Following a structured work approach in close cooperation with all team members: understanding the requirements and operation of all machine sub-systems, creating and executing work-plan, documenting results

Your climbing kit

Education: B.Sc. Degree in Software Engineering. Advanced degrees (M.Sc. or Ph.D.) are a plus.

Experience: 2+ years of experience in industrial software development related projects. Additional plus is experience with machine control software and graphical user interfaces.

Travel: Up to 20%

Technical skills: Required software skills: Strong LabView, OOP and UML knowledge. Good coding skills in parallel and asynchronous as well as sequential designs. Experience with software design, development, testing and documenting.

Desired software skills: Knowledge of LabView FPGA and experience with graphical user interfaces development are a plus. Understanding of C/C++ is required, while experience with it is not crucial. Familiarity with SVN, JIRA, and SCRUM is additional plus as well as knowledge of Q and Matlab.

Additional plus: Experience with mechanics, electronics and machine automation.

Soft skills: Cooperative and motivated team player. Independent in carrying on the tasks, acquiring new skills, analytically solving problems. Taking ownership of the task, which goes from requirements definition, planning, development, to documentation, deployment, reporting and tracking progress during the whole process. Taking well thought decisions, with reasonable compromises. Good presentation and communication skills. Willing to work in a highly dynamic, high-paced, entrepreneurial and demanding start-up environment.

Languages: Fluency in English

Permit: EU/EFTA citizens or valid Swiss working permit

How to join our team

1. Are you able to analyze problems and implement solutions?
2. Do challenges motivate you?
3. Are you a born entrepreneur?
4. Do you have passion and dedication to innovate the food world?
5. Are you a citizen of the world and enjoy being part of an international team?

If you have answered **YES** to all questions above, then you have high chances to be part of our team. Send your complete application in **PDF** format (including motivation letter, CV, copies of degrees, reference letters, and any relevant documents) or inquiries to jobs@qualysense.com mentioning the job reference number on top of this page. Application must be written in English. Incomplete applications will not be considered.



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