

SENIOR SOFTWARE ENGINEER – MECHATRONICS AND CONTROL GROUP

(Job Reference Number: QSCH2017JB259)

Location: Switzerland, Zurich-Glattbrugg

Date: Jan 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=OF8exqmmSl8>).

Challenge description

As Senior Software Engineer you will be a member of the Mechatronics and Control Group within the QualySense R&D Department, reporting to the Team Leader. You will work in a team of talented engineers and work 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 hardware, interfacing, control software architecture, 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

- Setup and maintenance of control hardware (e.g. PLC, FPGA, RT System, Industrial PC) and development environments, including coordination with component manufacturers and suppliers.
- Creation and maintenance of control software architecture for complex, industrial mechatronic equipment.
- Building and maintaining machine control software: coding, testing, deployment, troubleshooting and documentation.
- 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.
- Leading technical role within collaboration with external engineering partners.

Your climbing kit

Education: M.Sc. Degree in Software or Electrical Engineering. Ph.D. is a plus.

Experience: 5+ years of experience in industrial software development related projects.

Technical skills: Software: required excellent LabVIEW or C/C++ or PLC knowledge. Excellent coding skills in parallel and asynchronous designs and understanding of software engineering concepts and development methodologies. Electrical: strong understanding of electrical interfacing of control hardware, reading electrical schematics, knowledge of sensors and actuators used in mechatronic equipment.

Travel: Up to 20%.

Soft skills: Good presentation and communication skills. Cooperative and motivated team player and also independent in carrying on the tasks, acquiring new skills, solving problems. Taking ownership of the task. Willing to work in a highly dynamic, entrepreneurial and demanding start-up environment.

Languages: Fluency in English. Knowledge of German is an asset.
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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