



BE GREAT TOGETHER WITH US. Innovation, Efficiency and Ambition: this is what VAT has stood for for over 50 years. With this passion, VAT has grown to become the leading international developer, manufacturer and supplier of high-performance high-end vacuum valves and vacuum sealing technology, employing over 2000 people worldwide. The headquarters are located in Haag (Switzerland), the production centers in Switzerland, Malaysia, Romania and Taiwan.

Our team in Haag, Switzerland is looking for you:

Development Engineer – Embedded Systems (100%)

YOUR CHALLENGES

The manufacturing of a high-end microchip requires over 1000 production steps. Vacuum valves are considered to be a critical component as they are in proximity to the semiconductor wafer and have impact on the process performance. Semiconductor fabs like Intel, Samsung or TSMC have increasing expectations to productivity and production yield. These fabs are increasingly using data generated along the manufacturing process to improve production performance.

Smart, connected vacuum components are required for smart semiconductor manufacturing fabs enabling predictive maintenance, increasing performance and productivity.

To develop the required smart valve technology we are looking for an experienced development engineer with passion for embedded coding.

In addition your responsibilities are:

- Work on the state-of-art mechatronic control systems including:
 - Specification, coding, verification and troubleshooting of embedded firmware for edge devices
 - FW architecture & system design for edge devices
 - Industrialized Coding in C, C++ of features and applications
 - Algorithm verification and validation together with development engineers
 - Define firmware components, features and algorithms according requirements
- Develop, perform and document test/ results for embedded control systems, focusing on FW
- Lead projects in FW development for edge devices
- Cooperate among cross-functional team of experts within VAT R&D organization

YOUR COMPETENCIES

- Engineering Degree (BSc, MSc) in software engineering, computer sciences or similar
- Solid track record in #C programming for embedded systems and related Development Toolkits including uCs (ARM Cortex, NXP Cold Fire,...), FPGAs (Altera,...) and DSPs
- Experiences with VHDL and Matlab Simulink is desired.
- Knowledge or interfaces (like EtherCAT, TCP/IP Modbus, I2C, SPI, CAN FD) and mixed signal circuits is advantageous
- Some experience in SW/FW architecture for edge devices and requirements engineering
- Hands on, systematic approach, creative thinker with problem solving skills and team spirit

YOUR CONTACT

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Interested? Then we look forward to receiving your written application at: f.balon@vat.ch.

You can expect a dynamic and successful company where innovation, courage, fairness, openness and transparency are encouraged and your ideas are welcome.

www.vatvalve.com