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Straumann Group
Berlin

Regensburg, 27.06.2025

Junior C++ Software Developer Application

Dear Hiring Team,

I am thrilled to apply for the Junior C++ Software Developer position at Straumann Group, a company that continues to redefine digital dentistry with its groundbreaking unveiling of Straumann AXS, an AI-enhanced cloud platform, and the iEXCEL implant system at IDS 2025. Your commitment to improving clinical workflows through innovative software solutions is truly inspiring, and I am highly motivated to contribute my expertise in C++ and software development to support Straumann's mission of advancing dental care through technology.

During my Master's program, focusing on AI, I primarily used Python and Ubuntu as my development environment to develop applications for AI-driven tasks. One notable project involved autonomous navigation of the Turtlebot3 in a selected area, incorporating object detection and avoidance, while also mapping the area and ensuring the robot could return to its origin. This project utilized ROS (Noetic) and Gazebo for virtual testing, with key ROS nodes developed in both C++ and Python. Additionally, I managed a CI/CD pipeline for software testing and validation against key performance indicators (KPIs). Data from these operations was efficiently stored, analyzed, and optimized using MySQL. Parallel to my academic pursuits, during nine months at AVL, I worked on the Adaptive AUTOSAR middleware (Service Oriented Architecture) and developing its applications in C++. These Adaptive Applications were deployed on a custom Real Time Linux Operating System using Yocto project. After this, I continued at AVL for my Master's thesis, where I was tasked with upgrading their legacy FMU Generation Utility (written in C++) from the FMI 2.0 to the FMI 3.0 standard, thereby enhancing the functionality of the existing tool for Co-simulation of automobile parts built in different systems like MATLAB, C++ etc. In my Thesis, I also leveraged Google Protocol Buffers through ASAM OSI for efficient data serialization, streamlining integration of sensor and environmental models in driving simulations, enhancing virtual testing capabilities. At Persystems, I was a Junior C++ Developer, where I developed Virtual TestBench, a Qt Desktop application for simulations of electrical components, leveraging Persystems' proprietary library. My responsibilities included designing the UI/UX in the Qt Creator IDE with C++ to ensure a seamless user experience. I have also implemented the application's logic by connecting UI widgets to custom slots, using Qt's signal-slot mechanism to manage data flow between the UI and the backend operations interfacing with Persystems' testbench library. Additionally, I have built a separate license check application for Virtual TestBench using Qt and C++.

Drawing from my Master's work where I developed AI-driven applications in Python and managed complex projects in C++ at AVL, alongside my current role at Persystems refining simulation software with Qt and C++, I am primed to contribute effectively to Straumann Group's innovative software solutions. My hands-on experience with C++ and Qt Framework, demonstrated through developing the Virtual TestBench with seamless UI/UX and robust backend integration, aligns perfectly with your need for developers to enhance platforms like Straumann AXS. My proficiency in Linux systems and CI/CD pipelines, honed at AVL and Persystems, equips me to manage the full software lifecycle, from development to deployment, ensuring high-quality, scalable solutions. Additionally, my expertise in SQL and data optimization, as shown in my Turtlebot3 project, will support efficient data handling for clinical workflows. My collaborative experience at Persystems, working with product management and supporting user needs, prepares me to contribute to Straumann's mission of delivering cutting-edge dental technology with a focus on user satisfaction.

Among the many skills I have honed throughout my career, teamwork stands out as the most pivotal. My past experiences have emphasized the fundamental truth that sustainable solutions are often the result of collaborative efforts, rather than individual brilliance. I am eager to become part of the team and am committed to contributing my utmost from the very start, beginning immediately.

I would be greatly honoured to receive an invitation for an interview.

Yours sincerely,

Regensburg, 27.06.2025