Milind
Dessauer StraSSe 1A
86179 Augsburg
Email: milind.official98@gmail.com
Phone: +49-17646501001

Philips
UnterschleiSSheim
85716 München

Augsburg, 21.08.2025

Software Engineer Application

Respected Hiring Team,

I am thrilled to apply for the Software Engineer position at Philips, inspired by your ongoing 8-year strategic innovation partnership with Städtisches Klinikum München, valued at approximately 50 million, which enhances imaging systems and clinical informatics for Munich-based hospitals, as noted in recent updates. Your commitment to digitizing operations and advancing connected care motivates me to contribute my expertise in C++ and GUI development to your Munich team.

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. 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++.

With my extensive experience in C++ and agile development, I am well-prepared to excel as a Software Engineer at Philips. My work at Persystems on Virtual TestBench, utilizing Qt and C++ to design intuitive UI/UX with MVC architecture, equips me to develop advanced 2D/3D/4D review and quantification tools for medical imaging. My Masters thesis at AVL, enhancing the FMU Generation Utility with modern C++ for co-simulation, combined with my proficiency in CI/CD pipelines and Azure DevOps, aligns with your agile environment for ultrasound and workstation software. My skills in Python, SQL, and Linux systems, along with my experience in ROS and Gazebo for sensor-driven applications, enable me to contribute to Philips cutting-edge imaging systems and clinical informatics solutions.

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 honored to receive an invitation for an interview.

Yours sincerely,
Milind