Software Engineer, Virtual Reality Teleoperation, Tesla Bo

Job Location
United States
Remote work from: USA

Base Salary
USD 40 - USD 50

Employment Type
Full-time, Part-time

Hiring organization
Tesla

Date posted
October 15, 2024

Valid through
31.05.2025

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Description
Tesla's Autonomy Telemetry team is charged with collecting and processing all the data that fuels the development of Autopilot and Tesla Bot. We rely on imitation learning to train Tesla Bot to perform new tasks. This requires collecting thousands of human demonstrations and producing a massive dataset that can be used to train our neural networks. To facilitate this data collection, we are building a state-of-the-art VR rig that can be used by our Bot Operators. This will allow them to seamlessly experience the world as the Tesla Bot does, and remotely operate the robot to perform complex and intricate tasks. Working with hardware teams, you will drive requirements, make design decisions and implement software integration for this custom VR data collection system.

Responsibilities
• Influence architectural decisions with a focus on security, scalability, reliability, and high performance
• Choose technologies that will allow us to scale with our growing fleet of robots while efficiently utilizing cloud infrastructure and managing costs
• Integrate new sensors and other hardware components to build custom data collection rigs
• Setup and maintain monitoring, metrics & reporting systems for fine-grained observability and actionable alerting, from car to cloud

Requirements
• Practical experience using application layer languages like C++ and Python
• Familiarity with 3D graphics, game engines and virtual reality systems
• Experience with Linux: networking, wireless (WiFi and Bluetooth), filesystems and storage

Compensation and Benefits
Benefits