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# Example of Simulation Software Engineer Job Description

Our company is growing rapidly and is hiring for a simulation software engineer. Thank you in advance for taking a look at the list of responsibilities and qualifications. We look forward to reviewing your resume.

## Responsibilities for simulation software engineer

* Working with proprietary portable storage devices, building, loading and testing on the training systems
* Developing procedures to update aircraft equipment, including media, BIOS, and operating systems
* Input / Output (I/O)
* Aircraft system simulation
* Deliver RF simulation core engines with world-class accuracy and performance
* Develop new RF circuit analyses and characterization capabilities
* Profile, identify and remove bottlenecks in performance of various RF analyses
* Work closely with the rest of the AFS Platform development team
* Debug difficult testcases with performance, capacity, or functional issues
* Extend and maintain RF features of Analog FastSPICE platform

## Qualifications for simulation software engineer

* 1+ years of experience in implementing software simulations of either a decision-making agent or a system that processes sensor data
* Experience using a vehicle dynamics software simulation environment, such as CarSim
* Experience developing with a gaming engine, such as the Unreal Engine
* Experience in robotics or agent-based design, specifically an understanding of algorithms such as motion control, path planning, SLAM, object tracking & detection, computer vision, decision making, or artificial intelligence
* Experience using coordinate transformations, geospatial location, mapping, computer graphics, 3D data, and 3D rendering/visualization tools
* Experience developing multi-threaded applications, specifically in C/C++