



## **Mid to Senior Level Software Engineer**

Skyward, Ltd. is a rapidly growing small business, located in Dayton Ohio, that provides engineering survivability, vulnerability, and lethality support to Department of Defense and commercial customers, specializing in test & evaluation support, modeling & simulation (including advanced physics-based simulation and machine learning), reverse engineering, and Unmanned Aerial Systems. We develop software for a variety of applications from rapid structural analysis tools used to simulate Live Fire Tests to Unmanned Aerial System (UAS)-embedded anomaly detection algorithms and live geospatial UAS sensor data visualization. These cross-platform (Linux, Windows, Mac) applications utilize a number of technologies including:

- 3D accelerated graphics
- Geospatial data visualization
- VR data visualization
- CUDA, GPGPU, OpenCL, OpenMP, MPI development
- Hardware integration of machine learning algorithms
- Cloud infrastructure development and integration
- Android/IOS development
- Database development and integration
- Re-engineering legacy software

Skyward Ltd. is seeking a well-rounded mid- to senior-level software engineer with experience leading software development projects and small teams in our Dayton, OH location to function in the following role:

### **Duties**

- Lead software development of cross-platform engineering, visualization, and machine learning software products.
- Collaborate with the Modeling & Simulation (M&S) team and participate in a unique mentorship opportunity to develop and integrate machine learning, dynamic simulation, and UAS software.
- Interact with customers and partners to develop an understanding of program issues and interact with the M&S team to devise solutions.

### **Our Environment**

Joel Test: <https://www.joelonsoftware.com/2000/08/09/the-joel-test-12-steps-to-better-code/>

- Source control: Yes: on-premise GitLab

- One-step build: Yes, build scripts compile, test, lint, and generate documentation
- Daily builds: Builds and tests are done before every merge
- Bug database: Yes, GitLab Issues
- Bugs fixed before writing new code: Yes
- Up-to-date schedule: Yes
- Specs: Yes
- Quiet working conditions: Yes
- Best tools money can buy: Yes
- Testers: Ad-hoc
- Code screening: Yes
- Hallway usability testing: Yes

## **Requirements**

- Experience leading projects and small teams
- Ability to obtain and maintain a U.S. DoD Security Clearance (must be U.S. Citizen).

## **Benefits**

Skyward offers competitive salaries and benefits, including:

- Retirement plan with annual employer contributions
- Employer provided Health Savings Account contributions for eligible employees
- Life insurance
- Comprehensive health insurance package, including dental and vision
- Paid Federal holidays
- A generous paid time off plan

Skyward Ltd. is an Equal Opportunity Employer. All qualified applicants will receive consideration for employment without regard to race, color, religion, sex, marital status, veteran's status, disability, sexual orientation, gender identity, or any other protected class set forth by federal or state law.

Skyward is a Drug-Free Workplace

All benefits are subject to plan eligibility rules, and legal requirements; from time to time benefits may be updated or modified.

This job description is designed to provide general guidance in job tasks and is not meant to be all-inclusive of the responsibilities, duties, and skills required of this position. As business demands and needs change, the essential functions of this position may be updated to reflect the needs of Skyward, Ltd.