

Kurt Waage

Japan

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Summary

Creative and detail-oriented Game Programmer with expertise in Unreal Engine, C++, and C#. Experienced in gameplay systems, UI design, multiplayer optimization, and automated testing for PC and console platforms. Brings a unique background in robotics and XR integration to craft immersive, technically robust player experiences. Skilled in debugging, optimization, and cross-disciplinary collaboration.

Skills

C++, C#, Unreal Engine, Blueprint, Replication, GAS, UMG, Gauntlet, UEFN/Verse, Perforce, Rider, Visual Studio, Jira
Version Control, Debugging, Optimization, Multiplayer, Consoles (Xbox & Playstation), Extended Reality (XR)

Work Experience

BLACK TOWER STUDIOS

Japan

Game Programmer

Aug. 2024 - Present

- Supported, maintained, and created new content for the live-service game [The Texas Chainsaw Massacre](#).
 - Updated the interaction system for more natural player experience.
 - Created automated tests using Gauntlet for Windows, Xbox, and PlayStation, reducing release bugs.
 - Reworked and developed UI menu flows for game modes Rush Week and Custom Matches.
 - Optimized gameplay, animation, and network systems across multiple platforms.
 - Collaborated closely with QA and designers to identify and fix critical bugs before release.
- Designed, implemented, and maintained content in the Fortnite ecosystem ([Black Tower Bites](#)) using Unreal Editor for Fortnite and Verse.

WOVEN BY TOYOTA

Tokyo, Japan

Research Engineer

May 2022 - Nov. 2023

- Researched, developed, and integrated software and hardware XR capability for selected autonomous vehicles
 - Developed APIs to connect autonomous systems with external applications.
 - Designed hardware fixtures and integrated external PCs and XR components.
- Built software and hardware triggers for emergency stop functionality, improving safety response times.
 - Provided on-site field support and conducted thorough post-test bug reviews.

TOYOTA RESEARCH INSTITUTE

Cambridge, MA | Tokyo, Japan

Systems Integration Engineer

Oct. 2018 - May 2022

- Co-led two vehicle fleet builds, completing 19 autonomous vehicles on schedule.
- Documented and reported technical issues, led bug scrubbing, and implemented verified fixes.
- Trained team members on vehicle builds, retrofits, maintenance, and troubleshooting.
- Selected as 1 of 6 engineers to support Toyota's autonomous vehicle showcase at the 2020 Japan Olympics.

NORTHEASTERN UNIVERSITY

Boston, MA

Research Assistant, Robotics and Intelligent Vehicles Research (RIVER) Lab

Nov. 2016 - Jan. 2018

- Conducted research in underwater robotics and monocular optical flow-based navigation and perception.

ORBITAL ATK

Layton, UT

Manufacturing Engineer

Aug. 2015 - Apr. 2016

- Supported aerospace manufacturing processes and quality assurance.

US ARMY

Germany

Sergeant - Infantry Section Leader

Sept. 2005 - Feb. 2010

- Honorably discharged from the US Army Infantry as Sergeant (E-5) with two deployments to Iraq.
- Taught Military Operations in Urban Terrain (MOUT) to foreign and domestic groups of platoon size or larger.

Education

NORTHEASTERN UNIVERSITY

Boston, MA

M.Sc. in Mechanical Engineering

2016 - 2018

- Gordon Institute of Engineering Leadership fellow
- Concentration in Mechatronics

B.S. in Mechanical Engineering and Engineering Science

2011 - 2015

- Minor in Mathematics
- Space Concentration