

Kurt Waage

Tokyo, Japan

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Work Experience

BLACK TOWER STUDIOS

Japan

Game Programmer

Aug. 2024 - Present

- Support, maintain, and create new content for live service game [The Texas Chainsaw Massacre](#)
 - Overhauled interaction system to accommodate player base requests
 - Used Gauntlet to create automated tests for debugging Windows, Xbox, and Playstation platforms
 - Optimized gameplay, animation, and network systems for Windows, Xbox, and Playstation platforms
 - Participated in content release feedback cycle by working closely with quality assurance and designers to fix bugs
 - Moved existing dedicated server system to peer-to-peer system
 - Updated or created how-to documents for new or existing systems

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 API for connecting the autonomous system with external applications
 - Designed hardware fixtures and integrated an external PC and XR components into an autonomous vehicle
- Developed software and hardware triggers for emergency stop functionality of the autonomous vehicles
 - Provided on-site field support during testing, and conducted bug scrubs after testing

TOYOTA RESEARCH INSTITUTE

Cambridge, MA | Tokyo, Japan

Systems Integration Engineer

Oct. 2018 - May 2022

- Co-lead two separate vehicle fleet builds totaling 19 completed autonomous vehicles
- Documented and reported issues to relevant teams in Japan and USA, participated in followup bug scrubbing, and was responsible for implementing and verifying identified fixes
- Trained team members within the Japan branch on how best to conduct vehicle builds, retrofits, maintenance, and troubleshooting

Vehicle Support Engineer

- Chosen, as 1 of a 6 person team, to report to support Toyota's involvement in the Japan 2020 Olympics as a system integration co-lead
- Responsible for vehicle builds, retrofits, and field support for a fleet size of more than 10 vehicles

NORTHEASTERN UNIVERSITY

Boston, MA

Research Assistant

Nov. 2016 - Jan. 2018

- Robotics and Intelligent Vehicles Research (RIVeR) Laboratory
- Researched underwater robotics and monocular, optical flow based navigation and perception

ORBITAL ATK

Layton, UT

Manufacturing Engineer

Aug. 2015 - Apr. 2016

- Mechanical engineer assigned to the Airbus A350 project

US ARMY

Germany

Sergeant – 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

COLORADO STATE UNIVERSITY

Fort Collins, CO

B.S. in Mechanical Engineering and Engineering Science

2011 - 2015

- Minor in Mathematics
- Space Concentration

Skills

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