3D Modeler, Generalist

Location: Orlando, Florida, USA
Job Status: Full Time
Date Posted: 02/12/2024

Position Summary:

The 3D Modeler, Generalist participates in the design, development, testing and troubleshoot of new 3D models and environments. They are also responsible for adding enhancements to existing 3D Visual Databases and creating assets for the moving model library.

Essential Duties and Responsibilities:

- Designs and builds 3D synthetic environments for aerodrome simulators.
    - Gathers Data using Geospatial tools (OSM, Imagery etc.)
    - Generates 3D terrain for the Visual Engine with high-quality visuals.
    - Creates terrain mask layer, displacement maps and landscapes.
    - Creates modeling optimizations for simulation use.
    - Creates lighting and environment.
- Builds 3D aircraft and ground vehicle moving models for civilian and military environments.
- Solid understanding of rigging and animation in a gaming environment
- Experience in digital art content creation, including simulation ready, high, and low poly modeling, unwrapping, baking, and texturing.
- Proficiency in modern art production within a simulation engine and/or an Unreal engine-based project environment. o Solid understanding of one or several components of Unreal Engine such as
- Material Editor and Shader, Blueprints, Animation, Scene Building, Sequencer,
- Lighting and Unreal Scripting systems
- Ability to create materials.
- Modify and enhance RVT (Real Time Virtual) textures to be used in landscapes.
- Ensure the maintenance of adequate performance and adhere to standards.
- Work with internal customers and technical staff to enhance Aeroscene (Unreal Visual) visuals.

Supervisory Responsibilities:

- None

Skills:

- Expert-level proficiency in:
  - 3D Studio Max
  - Photoshop
  - Unreal Engine
  - Substance Painter
  - Designer or Quixel
  - Global mapper (or ArcGIS)
- Experienced with:
  - PBR pipeline
  - Terrain creation tool
  - Presagis Creator
  - Scripting is a plus
- Desired:
  - 3-5 years of successful 3D Environment creation for Simulation and Unreal Engine experience.

Quality:

- High attention to detail
- Integrate functional assets and features to airport.
- Artistic eye
- Ability to create a cohesive environment that suits the training objectives · Good communication with all stakeholders.

Competencies:

- **Alertness:** Learns quickly; is comfortable when having to incorporate new information; quick witted; demonstrates intellectual abilities.
- **Client Orientation:** attentive to client needs and understands how they may change; proposes products and services that are in keeping with client expectations; tries to be proactive in adjusting products or services.
- **Creativity:** creative and inventive; motivated to find new solutions; values new ideas; innovative; finds creative solutions.
- **Initiative:** Likes autonomy and flexibility; sets own direction; able to act independently without the support or approval of others; trusts own judgement.
- **Time and Priority Management:** Uses time efficiently; accurately determines priorities; remains focused on more urgent and important tasks; knows what to prioritize without compromising results.

Qualifications:

Required

- High School Diploma or equivalent.
- Previous experience working with 3D real-time modeling for simulation purposes.
- A degree in Architecture, Animation, Simulation, Design, Modeling and/or Animation Certificate, or a related field.
- Previous experience with 3D terrain creation software and other 3D applications.
- Familiarity with Image Generators (IG) and GIS data.
- Good understanding of contour maps.
- Ability to analyze and understand architectural and civil plans.
- Knowledge of cartography.
- Detail oriented with the ability to differentiate between different colors and proportions.
- Knowledge of Microsoft Office products such as Word, Excel, PowerPoint, and Outlook.
- Demonstrated interest in the Aviation field.

Other Qualifications:

- Ability to adhere to Adacel's Drug Free Workplace Policy.
- Ability to pass an Adacel background check while employed.
- Must be able to pass an FAA background check.

Physical Requirements:

- Minimal physical effort (e.g. lifting, pushing, and moving heavy objects).
- Occasional lifting – less than 25 lbs.
- Repetitive wrist, hand, and finger movement.

Work Environment:

- Alternative work schedules (9/80 or 4/10).
- Normal office environment.
- Typically sitting at a desk.

Benefits:

- Hybrid teleworking environment.
- Up to 2 weeks' vacation plus 7 paid holiday a year, 2 floating holidays, and sick time accruals.
- 401K plan with company match.
- Employee contribution towards health insurance.

How to Apply:

- You may apply by accessing the following link: [Click Here]

About Adacel:

Established in 1987, Adacel is a publicly traded company listed on the ASX. The company plays a significant role in global air space safety. A world-leader in its industry, Adacel applies cutting-edge technologies to develop advanced air traffic control simulation and training systems and state-of-the art air traffic management solutions. Adacel's customers include international air navigation service providers (ANSPs), military, defense & security organizations, universities, and airport authorities. More than 21% of the world's airspace is managed with Adacel's Aurora ATM software. MaxSim Tower Simulator and Training systems lead the industry with the highest number of installations worldwide. MaxSim is also the first ATC simulation system in the world to deliver Virtual and Mixed Reality training capabilities into the classroom. Adacel's latest flagship system, REVAL, a digital Air Traffic Control (ATC) tower system delivers a wide spectrum of digital tower operational solutions, from consulting services to system design, development, deployment, and support. For more information, please visit adacel.com.

Adacel is an Equal Opportunity/Affirmative Action employer. All qualified applicants will receive consideration for employment without regard to race, color, religion, sex, sexual orientation, gender identity, national origin, disability, and protected veteran status. color, religion, sex, sexual orientation, gender identity, national origin, disability, and protected veteran status.

Disclaimer:

This job description reflects management's assignment of essential duties and responsibilities. It does not restrict the duties and responsibilities that may be assigned. Reasonable accommodations may be made to enable individuals with disabilities to perform essential duties and responsibilities. If this job has a travel requirement, note that the frequency of travel may increase at any time due to adjustments in Adacel's business needs.