**CS 560 – FALL 2017**

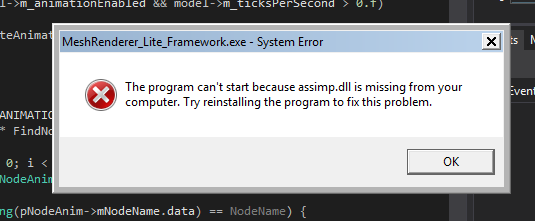
**Mesh Renderer User Guide**

**By:**

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**Before running the renderer:**

* **I’ve tested in school computers with both Win10 and Win 7 so it should work when being graded. If it doesn’t feel free to email me(**[**esteban.maldonado@digipen.edu**](mailto:esteban.maldonado@digipen.edu)**)**
* When you run the solution for the first time, you’ll probably get this screen:

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Like the screenshot shows, the assimp.dll is missing from the executable’s directory.

Copy the dll located at:

**MeshRenderer\_Lite\MeshRenderer\_Lite\_Framework\MeshRenderer\_Lite\_Framework\Lib\Assimp\assimp.dll**

Copy that file to:

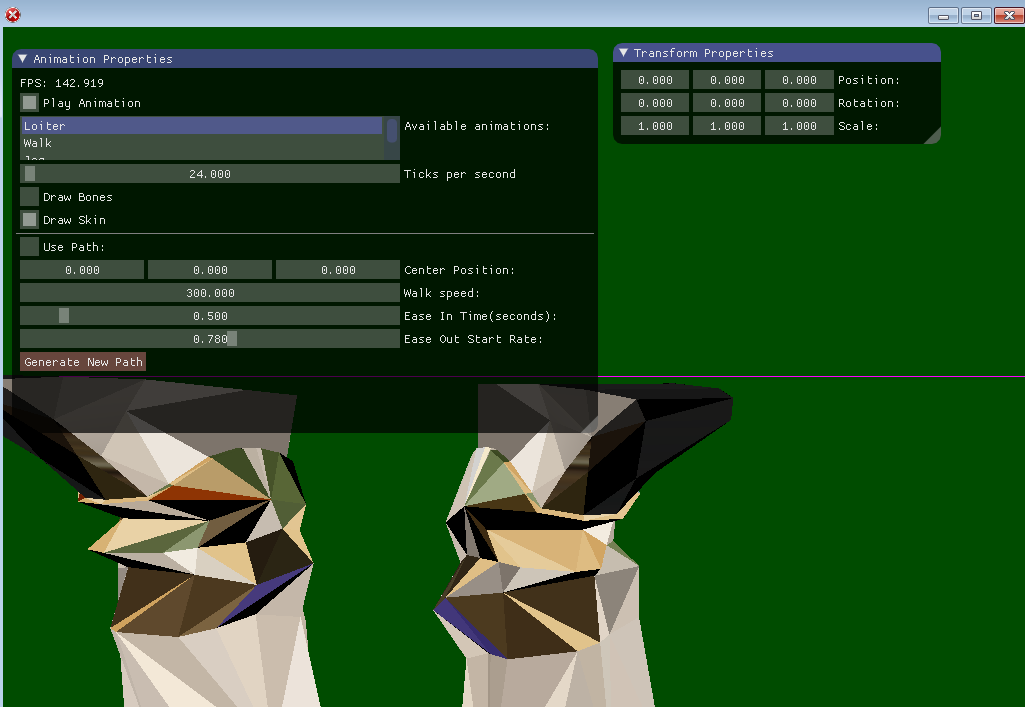
**MeshRenderer\_Lite\MeshRenderer\_Lite\_Framework\x64\[Debug | Release]**

*\* These directories are relative to where the framework is downloaded \**

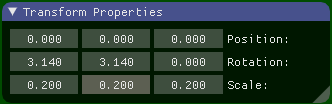
**Project 1:**

* I’ve chosen to start this with the model “tiny\_4anim.x” because it has multiple animations, and I’ve added functionality to change between those animations.

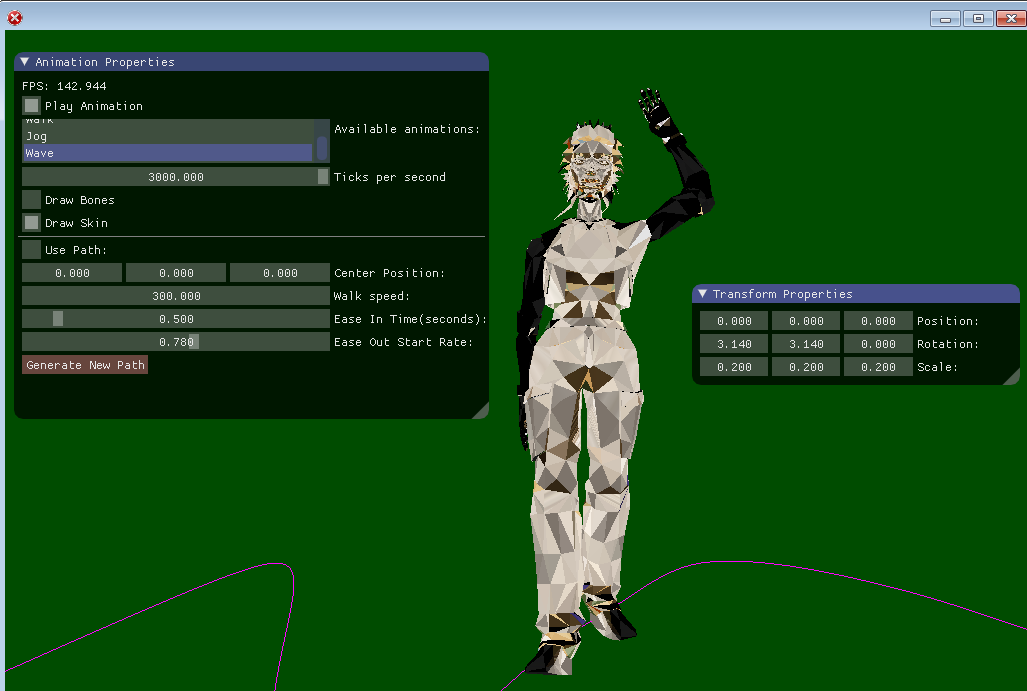
The only thing is that this model is super big and has a lot of frames:



On the **Transform Properties** window of the UI change the values to:



This will scale and rotate the model to face the screen. The different models that I’m using have different orientations so some adjustments are needed:



As a final adjustment, please drag the **Ticks per second(animation speed)** slider all the way up to 3000(current max value).

**Keyboard Camera Controls**

* **W & S:** Move in either the Z+ or Z-
* **A & D:** Move in either the X+ or X-
* **Q & E:** Move in either the Y+ or Y-

***Since I currently only support DX11, orientation is LH. Y axis is Up. –Z direction is towards the screen.***

**Project 2:**

**Framework controls for path following:**

* **Use Path:** enable or disable the use of the Curve Path component
* **Center Position:** The position of the center of the curve. If you modify these values the curve will change position and the model will adapt to this offset.
* **Walk Speed:** The speed that the model will use to follow the points along the path
* **Ease-In Time:** The time in seconds that the model will slowly accelerate until it reaches the full Walk Speed. I’ve capped this value to 0 and 5 seconds.
* **Ease-Out Rate:** A normalized value represents how much of the total distance has the model traveled. When it hits this factor, it will start to slow down until it reaches the end.
* **Generate New Path:** Click on this button and a new random curve will be generated

**Project 3:**

**Project 4:**