Comp 465 "Warbird Simulation" Class Diagram October 2, 2014 -Jared Fowler

AnimationSpeed CelestialBodySolid3D - id[20] : char - radianSpin : float - speed: UINT32 - radianRot : float + (All associated get/set functions) - orbital: bool - rotational : bool - missleCount : UINT32 - gravityVector : float - cb3D : CelestialBodySolid3D* - rotationAxis : glm::vec3 Object3D - spinning: bool - spinAxis : glm::vec3 # objName[25] : char - lastModelMatrix : glm::mat4 # fileName[25]: char + (All associated get/set functions) # vertexCount : UINT32 + getModelMatrix(): glm::mat4 # modelSize: float + update(bool) : void # active : bool # rotationMatrix : glm::mat4 # scaleMatrix : glm::mat4 # translationMatrix : glm::mat4 + (All associated get/set functions) + virtual getModelMatrix() : glm::mat4 CameraView - eye: glm::vec3 - at : glm::vec3 - up : glm::vec3 - viewID[20] : char - obj : Object3D* - eyeDynamic : glm::vec3 - atDynamic: glm::vec3 - upDynamic: glm::vec3 + (All associated get/set functions) + getLookAt(): glm::mat4 + static moveForwardOrBackwards(CameraView*, float, bool): glm::vec3

+ static turnRightOrLeft(CameraView*, float, bool) : glm::vec3 + static pitchUpOrDown(CameraView*, float, bool) : glm::vec3

MathHelperJWF

+ static get3D_ScaledVector(glm::vec3, float) :
glm::vec3

SpaceShip

- missleCount : UINT32
- + (All associated get/set functions)
- + getModelMatrix : glm::vec4
- + moveAdjust(float) : void
- + yawAdjust(float) : void
- + pitchAdjust(float) : void
- + rollAdjust(float) : void