Assessment Submission Coversheet:  
Physics for Games   
Task 2 – Document Your Custom Physics Engine

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| **Student Name:** | Connor Mills |
| **Student Number:** | 12563179 |
| **Student Email** | S182214@students.aie.edu.au |
| **Course Stream:** | 10702NAT – Advanced Diploma of Professional Game Development |
| **Assessment Name:** | Physics for Games |
| **Units Covered:** | ICTGAM556 – Develop and implement physics in 3-D digital games |
| **Teacher/s:** | Jesse James Donlevy |
| **Due Date:** | 20/02/2023 |
| **Date of Submission:** | *Will be automatically recorded on Canvas* |
| **Assessment Work Location** | Canvas |

*For more information on these parts, please click on the* [***Subject and Assessment Guide***](https://aie.instructure.com/courses/1027/files/723141?wrap=1) *link in the course* ***Game Programming Year 2*** *under the subject* ***Physics for Games*** *on* [*https://aie.instructure.com*](https://aie.instructure.com) *and read the* ***2023 Subject & Assessment Guide – Physics for Games*** *and go to* ***Assessment Tasks – Engine Documentation.***

**Naming Convention**

* Yourname\_PfG\_CPP\_Doc.pdf

**Declaration**

By submitting this work under my name, I declare that my submission is my own work with respect to plagiarism and does not violate any copyright laws. I have retained a copy of this assessment material that I can produce if requested.

Tick to acknowledge you have read and agree with this declaration.

Name: Connor Mills Date: 20/02/2023

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**Work Submitted:***Tick to acknowledge you have submitted this part of the assessment.*

1. Class Diagrams:   
   Image of the class diagram included in the Physics for Games document. I also submitted the class diagram as a .svg file separately.
2. Documentation:   
   I have submitted a document that includes:  
   - The interactions that happen in the physics library  
   - Two potential improvements  
   - Description of the game created to show case the physics library  
   - Description of the Third-party libraries used in the game  
   - References and research material

Name: Connor Mills Date: 20/02/2023