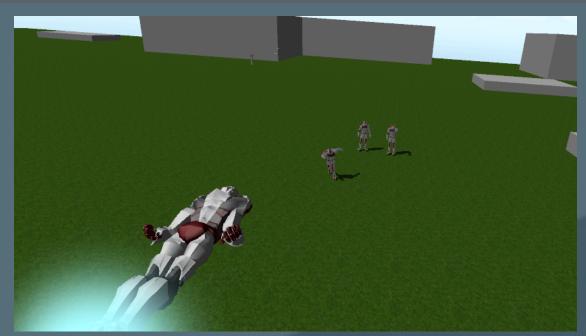
## PATHFINDING AND DECISIONS FOR

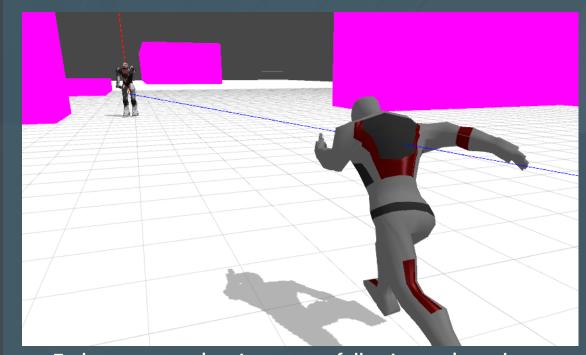
## ARTIFICIAL INTELLIGENCE

**Artificial Intelligence** is used to give computer controlled characters more human like behaviours.



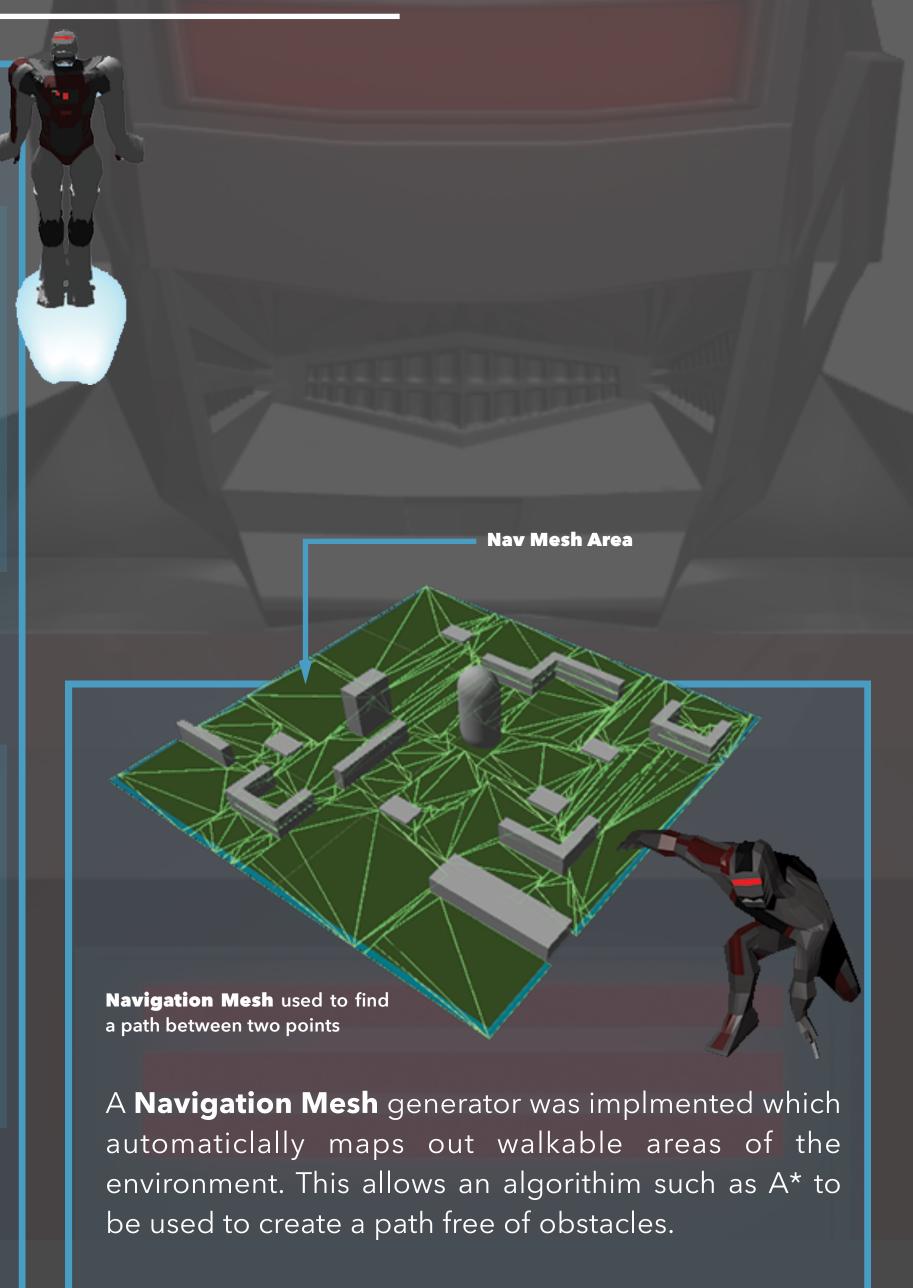
Player approaches group of AI controlled enemies

In this project, an **AI** was developed that aimed to incorporate the best methods which are currently available to the video game industry.

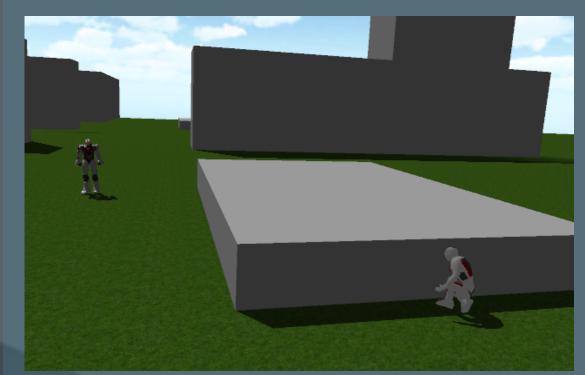


Early prototype showing enemy following path to player

Pathfinding was used to navigate through the gaming world, while behaviours were used to give the enemies intelligent actions and choices.

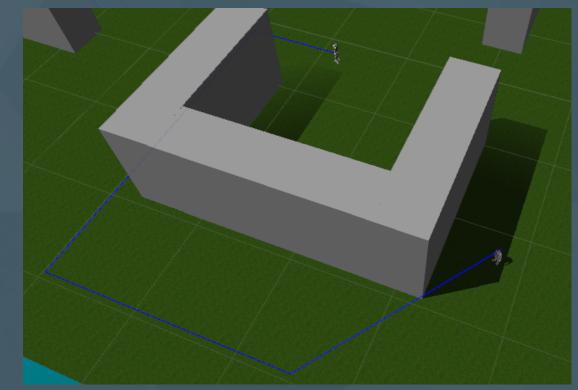


## EDWARD GORMAN SUPERVISED BY Dr XINHUI MA



An Al agent takes cover from the approaching player

Tactical path mechanics were implemented and used by the AI team, such as flanking maneouvers and seeking cover.



Path showing a potential flanking maneover

Results from the evaluation of this project showed that teamwork behaviours **improved** the Al's ability. However, this had no effect on how **enjoyable** the game was to play.