

Reflection Report

Wan Aina Shafiyah Binti Wan Ismail@Wan Roslan (222566)

For this project, I was responsible for Topic 2: Coordinate Frames and Transformation, which involves researching and explaining key robotics concepts such as points, vectors, rotation, translation and transformation. In addition to preparing the learning content, I also developed a learning and engagement website to present these concepts in an interactive and engaging manner. The most challenging part of this project was organizing suitable learning material for undergraduate-level learners with diverse backgrounds, as the topic involves abstract mathematical concepts that are often difficult to visualise. Furthermore, designing explanations that were both accurate and easy to understand required careful planning. Through this project, I gained a deeper understanding of coordinate frames and transformation in robotics and how they are applied in real-world robotic systems. I also improved my communication skills by simplifying complex technical ideas into clear and accessible learning content. Apart from that, developing the website enhanced my technical and design skills in web development. Overall, this project strengthened both my technical knowledge in robotics and my web development and communication skills.