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Serious Games in Aviation Maintenance Training

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Serious Games in Aviation Maintenance Training

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A serious game is a video game that is designed primarily to educate rather than solely to entertain. Serious games have been successfully used since the 1990s in fields such as military, education, healthcare, and corporate training. In aviation, the most common type of video games being used for training are the flight and air traffic simulators, which are related to serious games but still not the same. Currently, there are no video games, serious or not, being widely used in aviation maintenance training. This research focuses on the design and development of a serious game that can be used to teach two related fundamentals that are under-developed in most new aviation maintenance technicians; troubleshooting skills and human factors avoidance.