Risk Assessment for Individual Project: Open-Source Stereo Video Camera System for VR Lifelogging

Risk event	Likelihood (1-5)	Impact (1-5)	Risk Exposure (1-25)	Action
Fitting electronics into a spectacle frame clip-on enclosure is too technically complex and difficult.	4	4	16	Conduct thorough prototyping and testing of the case design early in the project to identify and address integration issues.
Processing power and onboard memory of Raspberry Pi Pico might not be enough for the complexity of this project.	4	5	20	Optimize code and data storage to work efficiently within the constraints of the Raspberry Pi Pico boards.
Powering three Raspberry Pi Pico devices with their electronics from a single supply may lead to suboptimal or non-functional performance.	5	3	15	Calculate power consumption and explore energy-efficient solutions. Implement features such as power management and hot-swappable batteries to address power challenges.
Developing VR-specific lifelogging software with features like immersive user interface elements, scene/object detection, and metadata auto-tagging may introduce technical complexities, potentially causing project delays.	5	2	10	Simplifying the software scope, such as omitting scene detection and reducing metadata features, can help mitigate technical complexities and minimize project delays.
Implementing stereo content within a VR game engine may prove technically challenging and time-consuming.	5	5	25	Plan for potential difficulties in stereo implementation and be prepared to use existing applications for viewing SBS content as an alternative.