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P21068 MSD I – Risk Assessment

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1. **Identify the top 5 risks you're concerned with, and their categories (technical, resource, safety, social, environmental).**
 - a. Designing the device for easy set-up/take-down while keeping the stability and accuracy of the device – technical
 - b. The drawing/real-time part of the device does not respond fast enough to user input - technical
 - c. Not fully understanding the range of motion of the students – resource
 - d. Lead time and availability of parts, especially considering delays due to COVID - resource
 - e. Some/all the team needed to quarantine which could cause us to fall behind in the schedule – social/resource
2. **Identify 3-5 stakeholders in your project's sphere of influence and sphere of interest, with a brief rationale for each.**
 - a. Sphere of Control
 - i. MSD Team
 - b. Sphere of Influence
 - i. Guide (Art) – The team's actions will be influenced by the advice Art has from previous projects and teams
 - ii. Client (Karen) – The team's actions will determine the experience Karen has with RIT MSD
 - iii. Future MSD Teams – Any future teams working on assistive and adaptable devices could be influenced by the outcomes of the team's actions and result. For example, they could look at the interfaces we designed for limited motion
 - c. Sphere of Interest
 - i. Students – They are the end user of the device. The device will change the state of their experience in art education for the better, and their abilities could change the design.
 - ii. Campus – COVID restrictions on campus can change how the team meets and communicates, and the team can change campus by sharing our design and the impact it will have.
 - iii. Art Classrooms (Environment) – The team will change art classes by the introduction of the robotic art assist device, and the team design will be changed by the space and composition of the classroom