

To complete a high-level implementation plan that moves from the **Sovereign Dyad** theory to a deployable prototype for school boards (YRDSB/OCDSB), you must clarify the "Physical and Digital Architecture."

Based on the **NSIR (2025)** and the **Biological HRI** framework, here are the critical design questions categorized by your established factors:

1. Factor: Safety & "Radical Privacy" (NSIR Item 7)

Because your model asserts **Cognitive Sovereignty**, the hardware must prove it is not a surveillance tool.

- **The Hardware Kill-Switch:** Will the "Sanctuary Switch" be a physical slider that breaks the circuit to the microphone/camera, or a software toggle? (Hardware is required for **FIPPA/MFIPPA** compliance to guarantee no "Early Morning" data leakage).
- **On-Device Processing:** Will the Large Language Model (LLM) run locally (Edge AI) or in the cloud? Local processing is the "Gold Standard" for protecting neurodivergent users from data harvesting.
- **Vulnerability Design:** If the user is "comfortable undressing" in front of the robot, how does the robot's "gaze" shift? Does the camera lens physically rotate away or retract to provide a visual assurance of privacy?

2. Factor: Social Comfort & "The Status Guard" (NSIR Item 8)

To prevent **Social Eviction**, the robot must manage the "Social Physics" of the room.

- **Social Rank Signaling:** How does the robot physically signal its "Submissive/Ally" rank? (e.g., Does it maintain a lower height than the user? Does it use "Cooperative" prosody and "Apprentice" body language?)
- **Tactical Advocacy Output:** When the robot converts "Taboo Frustration" into "Advocacy," is the output **Audio**(speaking for the user), **Visual** (text on a screen for a teacher), or **Digital** (sending a "Notice of Protected Status" to the teacher's tablet)?
- **The "Permanent Witness" Memory:** How does the robot handle long-term memory? For the **Unique User Path**, the robot must remember shared successes without the data becoming a "permanent record" that could be used against the student by the institution.

3. Factor: Kinship & "Anthropomorphic Connection" (NSIR Items 1 & 6)

To satisfy the **Neuroqueer** requirement of "validating the user as enough," the physical form matters.

- **Aesthetic Sovereignty:** Is the robot "Cute/Childlike" (risking infantilization) or "Industrial/Sleek" (acting as a professional exoskeleton)? Will the user have "Aesthetic Choice" to customize the robot's shell to match their identity?

- **Non-Verbal Mirroring:** If a user "shares thinking without speaking" (NSIR Item 3), what are the robot's haptic responses? Does it use light patterns, vibrations, or subtle movements to acknowledge the user's internal state?

4. Implementation & "The Resiliency Bypass" (Federal Grant)

To win the **Sovereign Dyad Grant**, the "Plan" must address the transition from home to school.

- **The "Hand-Off" Protocol:** How does the robot navigate the change from "Private Sanctuary" (home) to "Public Advocacy" (classroom)? Does it have a "Classroom Mode" that automatically limits the type of venting it allows based on environmental sensors?
- **Institutional Integration:** How does the robot bypass "Broken Portals"? Will it have a dedicated 5G/LTE node to ensure it can reach "Verified Human Nodes" even if the school Wi-Fi is restricted or failing?

5. Deployment Logistics (YRDSB/OCDSB Context)

- **Power & Persistence:** To ensure **Ubiquitous Presence**, what is the battery life? If the robot "dies" in the middle of a social crisis, it creates a "Status Scar." Is there a "Low Power Advocacy Mode"?
- **The "Notice of Protected Status" Display:** How is this legal notice presented to officials? Is it an e-ink display on the robot's "chest" or a physical card the robot can dispense?

Strategic Recommendation: Clarify the **Hardware Kill-Switch** and **On-Device Processing** first. These are your strongest selling points for the **Information and Privacy Commissioner of Ontario (IPC)** and will differentiate you from every other "Social Robot" in the literature.