

SIGHT Project - Meeting 11

Project Name: Safety Immersion and Gamified Hazard Training for Industry 5.0 Workers

Project Number: WSIC26-250206-009

Date: December 05, 2025

Time: 11:00 AM - 12:00 PM EST

Location: Zoom

Meeting Focus: Industry Partner Updates (MeetKai & MaxByte), Year-End Logistics, and Hardware Connectivity

Attendees

- **Miami University (MU):** Fadel Megahed (PI), Arthur Carvalho (Co-PI), Jay Shan (Co-PI), Ibrahim Yousif (Post Doc), Michael Wise (Graduate Research Assistant), Austin Hamilton (Student Assistant), Ryan Singh (Student Assistant), Amanda White (Student Assistant), Mohamed Farrag (Project Manager)
- **Safety Consultant:** Lora Cavuoto (UB)
- **Discovery Center (Evaluators):** Yue Li, Kristen Morio
- **MaxByte:** Ramshankar CS (CEO), Naveen
- **MeetKai:** Jacquie Babakanian (Chief of Staff), Alexander Elert (Software Engineer), David Arcia (Software Engineer), Artur (Software Engineer), Vincent Cheong (AI Engineer), Anushree Banerjee (Software Engineer)
- **Industry Partners:** Vick Dhanapal (Engineered Profiles)

I. Project Team Updates

Administrative Updates:

- **Year-End Schedule:** This is the final full team meeting of the year. The university will be closed from December 17, 2025, to January 2/3, 2026.
- **Invoices:** Industry partners (MeetKai and MaxByte) are requested to submit invoices for the quarter by next week to ensure processing before the university closure.
- **Quarterly Reporting:** The Quarterly Progress Report (Q2) is due to the BWC on January 09, 2026. Partners must submit summaries of activities, data samples, and demo links before Christmas to be included in the draft.

Technical Progress:

- **Button Definitions:** The MU technical team (Michael Wise/Ibrahim Yousif) will collaborate to define the specific function and necessity of CNC panel buttons to guide MeetKai's UI development.

II. Industry Partner Collaboration

MeetKai Updates (Jacquie Babakanian, David Arcia):

- **Dashboard & UI:** Presented updates to the main dashboard, including machine selection menus and an assessment history view.
 - *Feedback:* Fadel Megahed suggested adding aggregate data (e.g., "Average Score" or "Fastest Time") to the assessment view to provide users with context on their performance relative to others.
- **CNC Module Proposal:** Outlined a 5-stage training flow for the CNC Lathe:
 1. Setup (Safety checks, calibration).
 2. Load Part (Open chuck, load part; *Tailstock usage clarified by Michael Wise: required if length > 3x diameter*).
 3. Run Machine (Program selection, tool swapping).
 4. Cleanup (Chip removal).
 5. Shutdown (Zeroing tools, power off).
- **Panel Interaction Strategy:** Discussed the challenge of replicating the complex CNC control panel on mobile/VR screens.
 - *Selected Solution:* The team agreed on "Solution 3": A hybrid approach using a custom, context-sensitive pop-up keyboard that groups relevant buttons, while keeping essential "sticky" buttons (like Enter/Reset) permanently accessible.
- **Demo Feedback:**
 - *Participation:* Only 4 respondents provided feedback. The team emphasized the need for more participation to ensure valid data. **All members are urged to complete the form:** [Feedback Form](#)
 - *Milling Machine:* Users found the machine movement satisfying but requested more realistic resistance/weight on the levers.
 - *PPE Module:* High engagement with avatar customization. Scoring logic needs refinement (currently penalizes missing items inconsistently), and more onboarding instruction is required.

MaxByte Updates (Ramshankar CS, Naveen):

- **Hardware Status:** Most industrial IoT hardware (sensors, gateways, Magic Leap 2) has been received. Safety and metal detection hardware is expected by mid-December.
- **Connectivity:**
 - The CNC Lathe (via MTConnect) and Cobot (via Modbus) are successfully transmitting data to the Kepware platform.
 - Real-time data (machine status, energy usage tags) is visible in the Dell Hub.
- **Installation:** Sensor mounting locations are finalized. Energy meter installation is in progress.
- **AR Development:** Demonstrated an early-stage AR app on Magic Leap 2. Scanning a marker (monitor proxy) overlays the machine dashboard and work instructions.
- **Hardware Integration:** A discussion regarding the use of 3 PLCs versus 1 PLC for synchronizing the three machines is pending and will be finalized next week.

III. Upcoming Due Dates

BWC Deliverables:

- **January 09, 2026:** DO7.2 - Submit Quarterly Progress Report (Q2).

Logistics:

- **December 12, 2025 (Target):** Receipt of Q2 Invoices from partners.
- **December 29, 2025 (Target):** Draft of Quarterly Report ready for internal review.

IV. Risk Log Discussion

- **Supply Chain Delays:** MaxByte reported a delay in the delivery of the Autonomous Pallet Truck due to supply chain issues with GPU boards and sensors.
 - *Impact:* Delivery pushed to mid-January 2026.
 - *Mitigation:* MaxByte will continue to provide weekly status updates.
- **Lab Relocation:** Machines are scheduled to move to the new AM Hub facility shortly (around Dec 15). MaxByte is rushing to complete initial energy meter installations before the move.

V. Other

- **Sub-Team Meetings:** While full team meetings are paused until 2026, sub-teams (AI and Manufacturing) will continue to meet ad hoc next week to finalize hardware configurations and UI requirements.
- **MeetKai:** Fadel is available to meet with the MeetKai team over the next two weeks.

VI. A Summary of Action Items

Action Item	Owner	Anticipated Due Date
Complete Gamified Environment Feedback	All Team Members	Immediate
Submit Q2 Invoices	MeetKai (To Fadel) & MaxByte (To Mayyas)	Dec 12, 2025
Send Q2 Report Inputs (Demos/Data)	MeetKai (To Fadel) & MaxByte (To Mayyas)	Dec 19, 2025
Provide CNC Button Definitions & Grouping	Michael Wise & Ibrahim Yousif	Dec 12, 2025
Answer Cobot Functionality Questions	MU Team	Dec 12, 2025
Finalize PLC Strategy (1 vs 3) & Hardware Review	Ibrahim, Michael, Ram, Naveen	Dec 12, 2025
Share Historical Data/Kepware Video	MaxByte Team	ASAP