| **Key Deliverables** | |
| --- | --- |
| **Deliverable** | **Deadline** |
| Provide research-based justification for the approach to each component of our system   * Android App Dev * VR/AR Dev * Image Processing and Computer Vision * Machine Learning - Gesture Recognition, Smoothing * 3D Visualization | **Oct 31, 2024** |
| Operational LED glove control. | **Nov 15, 2024** |
| A mobile app with real-time camera feed access. | **Nov 15, 2024** |
| Image processing algorithms for LED glove-based movement trace tracking. | **Dec 1, 2024** |
| Machine learning models for hand gesture and finger movement trace recognition. | **Dec 1, 2024** |
| Real-time 3D visualization of finger movement traces. | **Dec 1, 2024** |
| Postmortem and Feasibility Prototype Demo | **Dec 17, 2024** |
| Full VR integration of hand gesture and finger trace visualization in an immersive space. | **Jan 31, 2025** |
| Write, Design and Prepare a Paper for Publishing | **Mar 3, 2025** |
| Research and develop further implementations or potential applications of this technology | **Mar 1, 2025** |