EMC Photo Booth

Project Overview:
For EMC Insurance, I developed the software powering four custom photo booths used at a high-profile conference. The goal was to create an engaging and unique photo booth experience while integrating the booths with a dynamic LED wall .

My Role & Contributions:
I designed and implemented the complete photo booth software, ensuring a smooth workflow from photo capture to printing and LED wall integration. The application handled user interactions, image processing, and hardware communication.

App Features:

- **Animated "Attract" Screen:** A dynamic welcome screen to engage users and invite participation.
- **Photo Capture with Timer:** A guided capture experience with a countdown and automated image-taking process.
- **Preview & Retake Options:** Users could review their photo and choose to proceed or retake for a better shot.
- **Customizable Overlays:** Users could select from branded EMC frames to personalize their images.
- **Automated Printing System:** The software managed a printer to generate instant photo prints, with an option for additional copies.
- **LED Wall Integration:** The application communicated with a TouchDesigner system to display user photos dynamically on a large interactive LED wall.

Brief Technical Overview:
The app was built in Unity, relying on just one external asset pack to handle communication with the printer. Each photobooth contained a mini PC which ran my application and contained a touch screen display for the users to interact with. Each time a photo was taken, two versions were saved; A high-resolution version with the user's selected overlay used for printing, and a smaller modified version with a blue overlay, which was saved to a shared network folder. The PC running the TouchDesigner application accessed this shared folder, automatically detecting new images and refreshing the LED wall in real-time to display the latest photos.