

2024EllisWyatt-abstract

Abstract

Architecture can be the catalyst for reshaping the United States public transportation systems and urban development practices. This diploma project not only mirrors international and national public transportation hubs but also integrates solar technology, wind energy, and optimizes user experiences. This multimodal transportation hub is located in Chicago, Illinois in the South Loop district. This location is to become a central point for a high-speed railway network spanning the Midwest, connecting neighboring cities and fostering a new era of efficient and sustainable transportation across the United States. The design principles embodied in this transportation hub focus on marrying functionality with aesthetic appeal. The architectural layout is planned to accommodate the different transportation modes seamlessly. From high-speed trains, buses, cars, uber, and pedestrian pathways, every aspect is integrated to ensure smooth transitions and easy accessibility for commuters. User experience takes center stage in the design philosophy, with a focus on convenience, comfort, and accessibility. The hub is designed to be a dynamic space, offering amenities such as smart ticketing systems, interactive information kiosks, and comfortable waiting areas. The integration of technology ensures real-time updates on transportation schedules to reduce uncertainty and enhance the overall travel experience for passengers.