The socio-economic activities of any urban community are specifically shaped by the neighborhood's architecture and infrastructure. In this way, all neighborhoods possess a type of grown identity. However, careful repositioning could improve the potential to create more beneficial partnerships between the infrastructure and neighborhood by using the found conditions.

My project explores the principles of synergy as a model for adapting once industrial cities to our changing needs. Following these principles, I am proposing a Polytechnic High School at New York's old 150th Street Viaduct run by New York Department of Education in cooperation with the Metropolitan Transit Authority.

At the project’s site, years of living in the Viaduct’s shadow have resulted in an 'auto culture' where residents have an unusually high interest in auto and machine mechanics. The school will encourage residents to mature these interests in auto mechanics to careers as train engineers. In doing so the school can educate the neighborhood’s underprivileged students while also helping to revitalize New York's aging transit system.

The facility will also act as a transfer hub and living transit museum. It will educate the larger community on the benefits of New York's transit system, while filtering the public through interactive exhibition and working spaces as they transfer trains.

Although the project explores a range of scales including pedestrians, automobiles, and trains, through synergistic thinking it’s able to strengthen the neighborhood’s identity in relationship to the community and infrastructure.