DO LOOK DOWN
NEW YORK CITY’S BROOKLYN BRIDGE, REIMAGINED
SHANNON HUI, KWANS KIM, YUJIN KIM; HONG KONG, BAY AREA, NEW YORK
MEET THE TEAM*

SHANNON HUI
Born and raised in Hong Kong, Shannon (20) is a rising junior at Barnard College studying Architecture and Psychology. She is most passionate about elevating voices that have historically been left to the margins of urban narratives, and creating spaces in which people can feel like they belong.

KWANS KIM
Kwans (17) is a 2020 graduate of Foothill High School in the Bay Area. He is passionate about music and film and hopes to work one day in the entertainment industry as a creative force. In the Fall, he will be attending New York University.

YUJIN KIM
Yujin (21) is a rising second-year PhD candidate in pure mathematics at the Courant Institute of Mathematical Sciences, specializing in probability theory. He enjoys working on projects with friends from multi-disciplinary backgrounds. He graduated from Columbia University in 2019.

*heads not to scale
<table>
<thead>
<tr>
<th></th>
<th>GUIDING PRINCIPLES</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td><strong>Preservation.</strong> The current form and aura of the bridge must be preserved: any enhancements should be kept unobstructive or reversible.</td>
</tr>
<tr>
<td>2</td>
<td><strong>A Wide Scope:</strong> As a premier landmark, the bridge has a certain duty to equitably represent the diversity of peoples that it bridges.</td>
</tr>
<tr>
<td>3</td>
<td><strong>The Potential for More:</strong> The proposal should not be static in its capacities, but instead possess enormous potential for future progress and change.</td>
</tr>
</tbody>
</table>
DO LOOK DOWN

PROJECT OVERVIEW
DESIGN ELEMENTS IN SUMMARY

REIMAGINING BROOKLYN BRIDGE

Roadway reclaimed for pedestrians and cyclists
Glass walkway installed above girders
LED and Projection system
Intervening on spaces adjacent to bridge and beyond
Old car lanes remodelled as public spaces
1. GLASS WALKWAY
2. RECLAIMED ROADWAY
3. KINETIC PAVERS, PROJECTIONS, LIGHT DISPLAYS
4. ACCESS
GIRDERS, TODAY

DO LOOK DOWN

GLASS WALKWAY
GIRDERS, REIMAGINED

DO LOOK DOWN

GLASS WALKWAY
NEW SPACE = COMMUNITY ENGAGEMENT OPPORTUNITIES

Glass walkway above girder gives ~30 extra feet of width on each side

- Cultural performances and events
- Art installations
- Support for vendors
GLASS WALKWAY PATTERN

- Translucent areas are concentrated at the arches, creating a new commuter and tourist experience.
- Proportionally higher segments of frosted glass caters to performers and vendors, and offers a route to those uncomfortable with translucent path.
- Pattern inspired by the bridge's interweaving cables.
DO LOOK DOWN

PLAYING WITH COLOR

Glass walkway can be enjoyed looking up or looking down

Engages local artists and increases the bridge's dynamism

Standard panels can be swapped or overlaid with removable coloured film
REPLICABILITY: COLORED GLASS ON THE WILLIAMSBURG BRIDGE

Interplay between color, glass, and light can enhance the experience of bridges throughout New York City.
PRESERVATION:
THE BRIDGE WE
ALREADY LOVE, AND MORE

- Architectural form preserved
- Opportunities for seasonal programming
- Elevated central walkway
- Kinetic paving
- Expanded pedestrian space
- Pathway partitioned for safer experience
RECLAIMED ROADWAY

ROADWAY, TODAY

DO LOOK DOWN
A NEW HOME FOR THE BROOKLYN BRIDGE FLEA MARKET

- Overhead glass walkway
- Reclaimed roadway for mixed transit and programming
- Local vendors
- Access to new views of the East River
- Shading provided by glass walkway pattern
- Kinetic paving installed throughout roadway
- Pedestrians
- Patrons
- Do look down
- Reclaimed roadway

Pedestrians

Overhead glass walkway

Reclaimed roadway

Patrons

Shading provided by glass walkway pattern

Kinetic paving installed throughout roadway

Local vendors

Access to new views of the East River
1. Glass Walkway
2. Reclaimed Roadway
3. Kinetic Pavers, Projections, Light Displays
4. Access
Kinetic paving is installed on flooring, processing energy for pedestrian footsteps.

Energy from pavers is harvested and channelled back into the bridge and its adjacent spaces.

Data on traffic trends collected to further inform programming. Mobile app allows users to track energy they contribute.
KINETIC PAVING
THE PHILOSOPHY

REIMAGINES TRAFFIC
Every footstep becomes a small but powerful contribution to the productions that light up the city

REIMAGINES HUMAN INTERACTION
Inherent sense of unity conveyed in producing (energy) together

REIMAGINES TECHNOLOGY
As technology evolves so will its use on the bridge and its adjacent spaces. Inspires proactive sustainability solutions in architecture, and challenges tech to contribute to social welfare.
LIGHTING, TODAY
LIGHTING, REIMAGINED
Images of civil and cultural importance are projected on towers during exceptional times.

Here, the Statue of Liberty wearing a surgical mask speaks directly to the nationwide need for constant vigilance against the pandemic.
ENGAGEMENT THROUGH AUGMENTED REALITY

Brooklyn Bridge phone app allows users to interact with the space through their smartphones.

Augmented reality allows for non-physical, artistic intervention.

Highlights historical and architectural facts.

Wide-spread announcements of upcoming events.

Gathers feedback through public polls on future programming and interventions.

ART: “LADY LIBERTY, PLEASE KNOW THYSELF” BY MEGAN LEWIS (IG @URBANHIPSTA)

We explore the implementation of light displays in spaces adjacent to the bridge, all of which will be powered by kinetic pavers on nearby walkways. By reimagining the bridge in tandem with its neighbours, we hope to reinforce the intimate relationships shared among them.
A transparent OLED display is installed on the facade of Jane’s Carousel, which is currently closed indefinitely due to COVID-19. This intervention adapts the attraction to the conditions of today while preserving the visibility of its stunning interior.
Holograms projected onto fountain mist, set against the backdrop of the Brooklyn Bridge and the Lower Manhattan skyline, provide another way for the bridge to be enjoyed at night. This display can be comfortably admired by socially-distanced park-goers, and provides an accessible outlet for artists during a time when museums and galleries are largely shut down.
Looking forward to a day when Black lives are not just acknowledged but actively celebrated, we believe that the beautification of this symbolic space is a necessary accompaniment to its recent renaming. Here, we have installed red and green lights on the trees to match the park signs, which were temporarily repainted in the colors of the Pan-African flag by NYC Parks. The sustainable character of the lighting fixtures ensures that this display is here to stay.
BROOKLYN WAR MEMORIAL (SOUTH SIDE)

This war memorial has long been a source of frustration due to its continued neglect and inaccessibility. Until the structure is restored and reopened for public access, the names of Brooklyn’s WWII service members may be projected on its facade (currently, names are engraved on plaques within the building) as a quick response to the desire for improvements to be made whilst some veterans are still alive.
We chose a piece that pays homage to the front-line heroes of the COVID-19 pandemic. By displaying “Front Line” on the West Face of the War Memorial while simultaneously projecting the names of WWII service members at the South, the site transforms from a war memorial to a living “service” memorial, honoring those who have served the city at times of crisis, then and now.
ART IN THE ANCHORAGES

By reviving the anchorages as a space for local artists to showcase music, art, poetry, and cultural performances, we pay homage to the historical legacy of Creative Time’s “Art in the Anchorage”- a series of installations and events hosted inside the cavernous spaces of the bridge’s anchorages from 1983 to 2001. Reflecting on the global plight of war refugees, this installation provokes dialogue on displacement and resettlement, as its warm light is alluring yet unreachable.

BEFORE

ART: “THIS IS NOT A REFUGE! (2)” BY ANILA QUAYYUM AGHA (IG @ANILAQUAYYUMAGHA)
In “Pride is Powerful,” Lynch seeks to make a clear political statement, emphasising that “[the LGBTQ] community must stand with the current Black Lives Matter movement: we must fight against systems that threaten us all… and that starts with protesting.” Like the bridge, City Hall features prominently as a historic venue for activism and protest. Furthermore, City Hall Park leads right to the bridge’s Manhattan entrance, where it hosts a great deal of traffic. These make the park a powerful location for sociopolitical messaging through projection.
1. GLASS WALKWAY
2. RECLAIMED ROADWAY
3. KINETIC PAVERS, PROJECTIONS, LIGHT DISPLAYS
4. ACCESS
ACCESSIBILITY PROPOSAL AT BRIDGE ARCHES

A ramp and a set of stairs placed on each side of each tower allow for mobility between the upper-deck and the pedestrianized roadway.
Another set of stairs connects the two levels of the bridge at the bridge center. This will allow for those affected by the sun on hot days to find shade at the promenade’s halfway point, or simply for a change in scenery.
EXISTING CAR LANES: BROOKLYN BRIDGE BOULEVARD / PROMENADE

MANHATTAN-TO-BROOKLYN DIRECTION
EXIT OF INNER-MOST CAR LANE (RECLAIMED AS BIKE LANE)
NEW BIKE EXIT:
BROOKLYN BRIDGE BOULEVARD / PROMENADE

MANHATTAN-TO-BROOKLYN DIRECTION
EXIT OF INNER-MOST CAR LANE (RECLAIMED AS BIKE LANE)

Bike lane merges with Brooklyn Bridge Boulevard

Green lane is reclaimed for bike exit, and purple and green lanes merge on the Brooklyn Bridge roadway to become the inner-most car lane

Purple lanes are reclaimed for a wider, pedestrian-only entrance point to the bridge promenade
EXISTING CAR LANES:
CENTRE STREET

MANHATTAN-TO-BROOKLYN DIRECTION
ENTRANCE OF INNER-MOST CAR LANE (RECLAIMED AS BIKE LANE)
NEW BIKE ENTRY: CENTRE STREET

MANHATTAN-TO-BROOKLYN DIRECTION
ENTRANCE OF INNER-MOST CAR LANE (RECLAIMED AS BIKE LANE)

Existing “Left-turn only” lane will be converted into a “bike-only” lane

Cyclists from both lanes may turn into the bridge

Signage and removable barriers keep cars from mistakenly entering the new bike lane while accommodating for emergency and vendor vehicle access

DO LOOK DOWN ACCESS
CYCLISTS

PEDESTRIANS, SCOOTERS, SKATEBOARDS, ETC.

PEDESTRIAN PUBLIC SPACE OPPORTUNITY

DO LOOK DOWN

ACCESS

ANCHORAGE PLAZA

WASHINGTON STREET

CLUMBER CORNER

HENRY STREET

CADMAN PLAZA PARK

CADMAN PLAZA W

CADMAN PLAZA E

PROSPECT STREET

RED CROSS PL

ADAMS ST

BROOKLYN QUEENS EXPY
BROOKLYN

OLD CAR LANES REMODELLED AS PUBLIC SPACES

BEFORE

SITE MAP

AFTER

Ramps lead to Cadman Plaza W.

Recycled wooden paving draws inspiration from Bridge’s existing walkway and Brooklyn Bridge Park.

Kinetic pavers

DO LOOK DOWN

ACCESS
BEFORE

CREATING GROUND-LEVEL ACCESS POINTS AT CENTER OF BRIDGE

AFTER

Elevator Installed at the arches

SITE MAP

DO LOOK DOWN

ACCESS
DO LOOK DOWN

ACCESS

CYCLISTS

PEDESTRIANS, SCOOTERS, SKATEBOARDS, ETC.

PEDESTRIAN

PUBLIC SPACE OPPORTUNITY
BEFORE

BLENDING BOUNDARIES BETWEEN BRIDGE AND ADJACENT SPACES

AFTER

Open connections to street
Opportunities for greenspaces and native foliage
Kinetic paving
PHASING OF USER AND SPATIAL DISTRIBUTION

PHASE 1  ETC: FALL 2020  PHASE 2  ETC: SPRING 2021
PARTIAL ROADWAY CONVERSION  FULL ROADWAY CONVERSION

PHASE 3  ETC: SPRING 2022  PHASE 4  ETC: SPRING 2023
SINGLE GLASS WALKWAY  DOUBLE GLASS WALKWAY

PEDESTRIANS  VEHICLES  CYCLISTS  EXPRESS  HUMAN-POWERED TRANSPORT  EMERGENCY

ETC: ESTIMATED TIME TO COMPLETE