

Chronoscent

A place remembered through scent.

A hand-operated scent device and functional WeChat Mini Program, designed to connect the experience of Suzhou's Pingjiang Road with its sensory memories.

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Independent graduation project

Research • Product & mechanical design

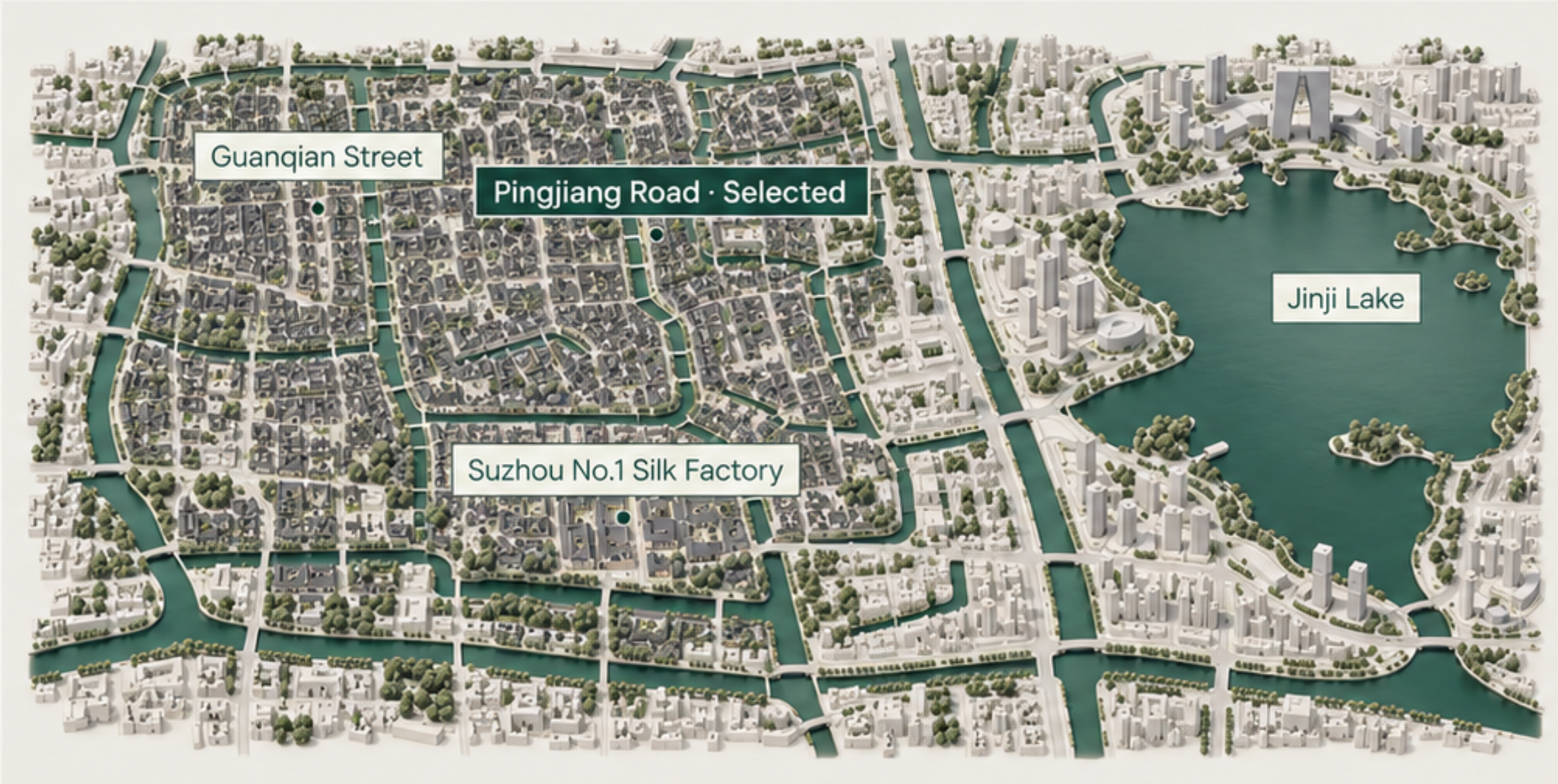
Physical prototyping • Mini Program development



Concept visual

The street beyond sight.

Pingjiang Road, Suzhou: a preserved streetscape with a changing sensory identity.



Suzhou site-selection schematic · Generated visual · Not to scale

Residents

Memories of coal smoke and jasmine tea connect scent with earlier life on the street.

Visitors

Seeking a connection beyond the visible streetscape, through local stories and sensory experience.

Design response

A hands-on scent encounter,
supported by historical content
and a personal digital archive.

Research synthesis
from original
project records

From mechanism to assembly

First iteration

Established the initial form and mechanical arrangement.

Second iteration

Added adjustment, a top cover and a limiter.

Third iteration

The valve component could not fit through the glass flask's neck during fabrication.



Fourth iteration

The redesigned assembly fits over the outside of the neck.



**An assembly constraint
became a structural improvement.**

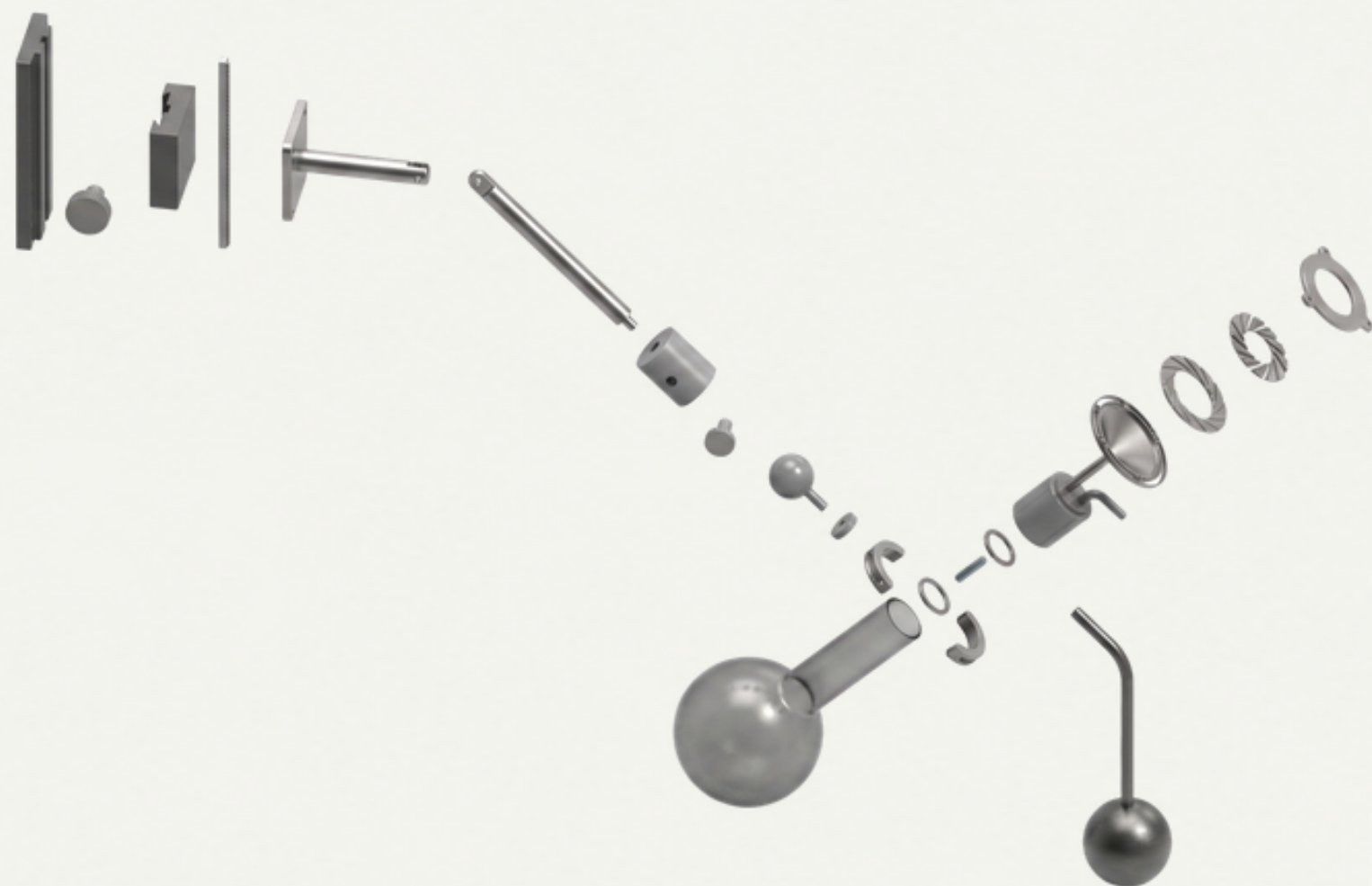
Improved sealing.
Protected glass threads.

Built around a breath.

04 / STRUCTURE

Material & making

3D-printed aluminum alloy.
Blow-moulded glass.



At rest

A spring presses a rubber ball against the opening.

On squeeze

Air pressure lifts the ball,
allowing airflow through the device.

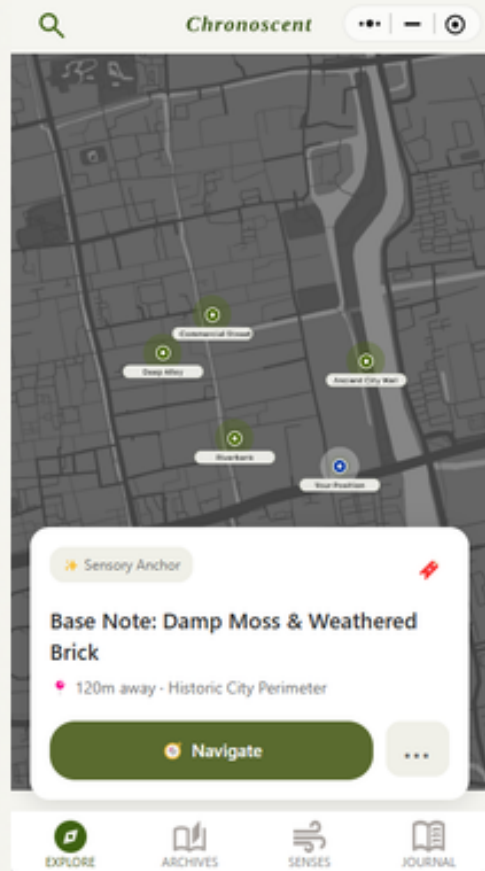
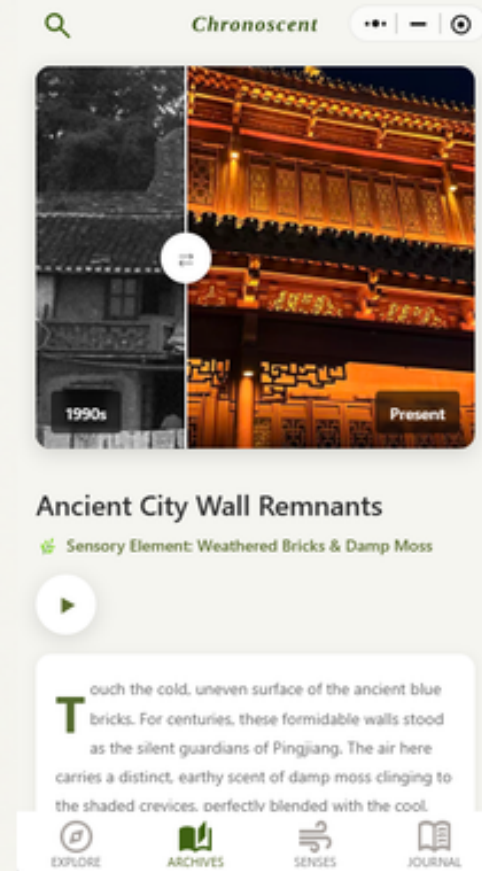
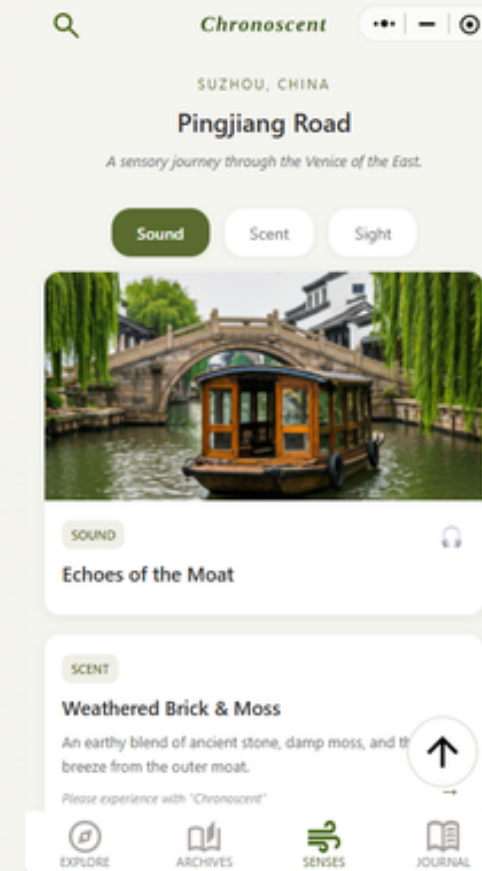
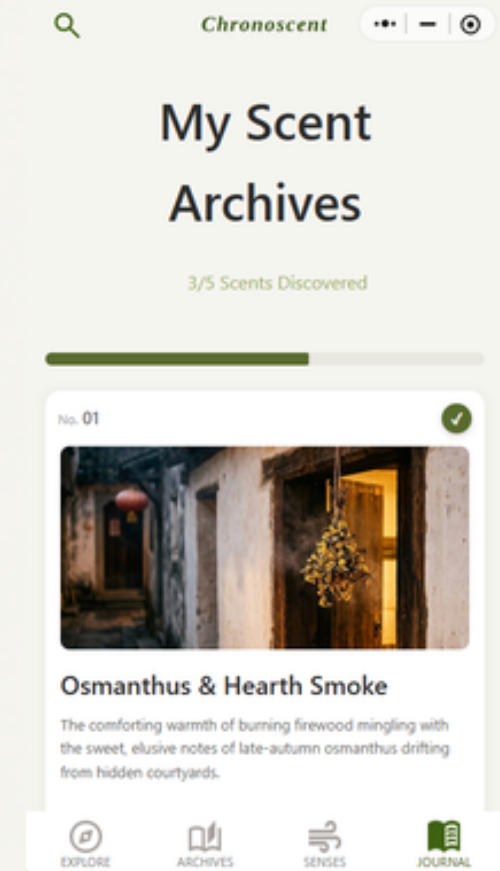
Original assembly visualization

A simple action. A controlled release.

From street to scent archive.

05 / DIGITAL EXPERIENCE

A functional WeChat Mini Program extends the physical encounter into a personal record.



01 Locate

Find a scent location and navigate to it.

02 Explore

Browse history, compare old and new, play audio.

03 Experience

Explore sensory content alongside the device.

04 Keep

Manually unlock scent cards and save an archive.

A place remembered. A story kept.

06 / PROJECT OUTCOMES

Physical prototype

A hand-operated scent device, developed through four iterations and physical prototyping.

Functional Mini Program

Navigation, historical content, audio, scene comparison, manual scent-card unlocking and personal archives.

Independent delivery

Research, product and mechanical design, physical prototyping and Mini Program development.



Project visualization

Connecting a physical encounter with a lasting personal record.