

2023 2024 *UI/UX Portfolio*



Joshua Jung

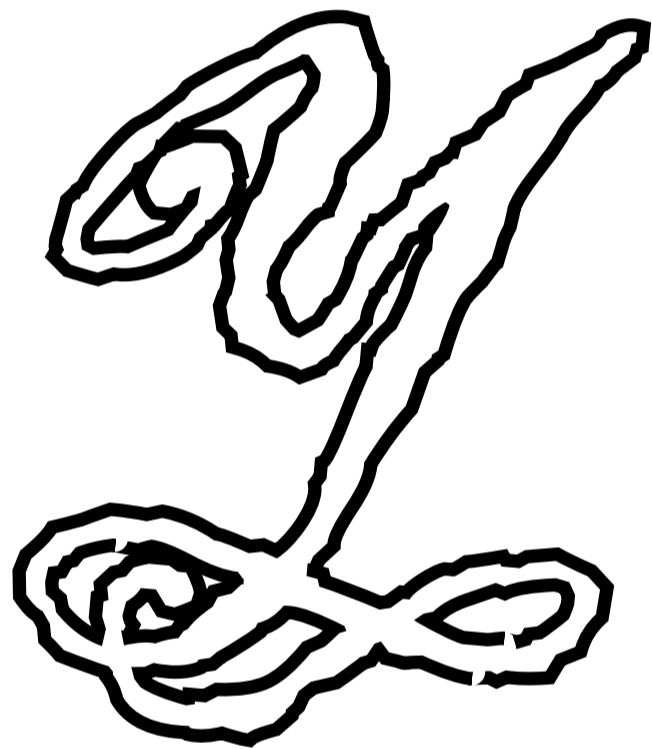
Magazine The Portfolio



Table of Contents



1. Coop



2. Schoolwork



3. Personal



Coop



1a) Co-op Issue

While working for the TTC, I was asked to rebrand the New Technology and Innovation Group from the original TTC template to a more 'innovative' design.



New Technology and Innovation






Toronto Transit Commission
New Technology and Innovation Overview



Emerging Technologies on our Radar for 2024

CI2: Emerging Tech & Solutions

- Autonomous Vehicles
- Robotics and Automation
- Optimizing 5G
- Drones






New Technology and Innovation





Strategy & Business Engagement

Innovation at TTC

The Corporate Innovation Workstream addresses the push of advancing technology and the pull of the emerging needs of stakeholders and customers. It aims to spark creative ideas, streamline and manage the flow of ideas, leveraging ecosystem, partnerships and technology advancements aligned to TTC's strategic priorities and pain points.

Workstreams	Goals	Benefits
C1  Solve Problems through Innovation Challenges	Tap into the collective knowledge of employees who know the business best and academics who understand the industry to solve specific business and customer problems	Diverse range of innovative ideas and cross pollinate ideas with thought leaders and academia partners
C12  Scout for Emerging Tech and Solutions	Staying abreast with emerging technologies and trends to maintain a competitive edge. Shape the future of transit and build strategic partnerships	Enables the TTC to adopt, build long term viability, have enhanced efficiency, thrive in a dynamic environment and shape our brand as a future-ready organization
C13  Build an Open Intake Process	Build a sustainable and continual stream of ideas from employees and external parties, and evaluate through the Innovation Pipeline	Empower employees to take ownership of innovation at the TTC, enhance creativity, and build an ecosystem of partnerships with local and global partners

1b) Co-op Issue



The Toronto Transit Commission is proposing to build the first of its kind, a **Transit Innovation Forum**.

This virtual forum will be a quarterly gathering that brings together the innovation leaders of transit agencies globally for a collaborative and enriching experience in innovation based peer benchmarking. This forum aims to create a dynamic platform where transit professionals can share insights, current problems, trends, innovative strategies, and the latest advancements in the field. These meetings will not only foster a spirit of shared learning but will also provide a comprehensive overview of the cutting-edge projects and advancements each agency is currently undertaking. Together, we can propel and shape the future of mobility to new heights of efficiency, sustainability, and customer experience.



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Strategic Priorities

TTC has identified 5 Strategic Priority areas to focus on exploring in 2024



- Transform Rider Experience (5)**
- Boost Operational efficiency to improve ride times
 - Reduce overcrowding
 - Rider Safety
 - Transit Control Center Tech solutions
 - Accessibility & Inclusion



- Worker Safety (Far left)**
- Remote Monitoring Solutions & Asset Management, Track Maintenance
 - BDIP: Operator Safety



- Collision Avoidance & Incident Reduction (Far left 2)**
- Vision Zero Bus Pilot: Protecting Vulnerable Road Users
 - Driver Assist Technologies



- Financial Sustainability (4)**
- Fare-Evasion and Farebox Ratio
 - Explore new revenue channels & boost revenue protection
 - Education on benefits/ impact/ value of transit



- Climate Resilience & Sustainability (3)**
- Energy conservation & energy management
 - Net Zero and Climate Tech
 - Circular Economy

Innovation Intersections

NTI's Quarterly Newsletter Update

Strategy & Business Engagement



- Shortlisted Strategic Priority Areas (From risk audit report)
- Mapped Emerging Technologies for 2024
 - Optimizing 5G
 - Autonomous Vehicles
 - Drones
 - Robotics and Automation
- Upcoming Roadshow with Infrastructure & Operations Group (For remote maintenance and monitoring technology)

CI1 Innovation Challenges



CI2 Scouting & Testing New Technology



- Vision Zero Pilot Progress Update
- Transit Innovation Lab
- Peer Benchmarking to understand Innovation Team structures + Key Takeaways
- Drone delivery use case exploration with Materials Management
- C13 Open Intake Process

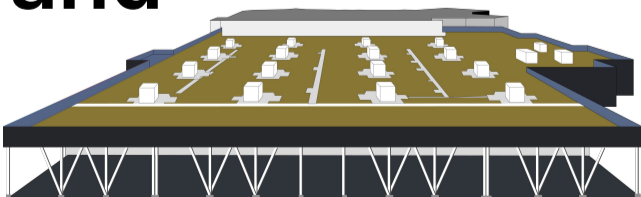
CI3 Open Intake Process



Requests



New Technology and



Innovation



Innovation Intersections



1c) Co-op Issue



Home | Forms Repository | Applications | Information Management

Search this site

Groups and Departments +

TTC Intranet > Innovation & Sustainability > Sustainable Innovation

New Technology & Innovation

Document Centre

Sustainability

New Technology & Innovation

New Technology & Innovation, Homepage

The New Technology and Innovation Team (NTI) is dedicated to envisioning, piloting, and integrating cutting-edge technologies that redefine the landscape of transit operations, ensuring the TTC remains a pioneering force in the transit industry. Our team is built on the Corporate Innovation Workstreams that address the push of advancing technology and the pull of the emerging needs of stakeholders and customers. It aims to spark creative ideas, streamline and manage the flow of ideas, leveraging ecosystem, partnerships and technology advancements aligned to TTC's strategic priorities and pain points.

C11
Innovation Challenges

Do you have a Business Problem you want to Solve?

- Innovation Challenge (External or Internal)
- Unlock Academia and Ecosystem Partnerships
- Innovation Workshops & Ideation Jams

C12
Scouting & Testing New Technology

Solutions or Emerging Technologies you'd like to Explore?

- Market Scan & Peer Benchmarking
- Transit Innovation Forum
- Tech Trend Reports
- SME Lunch & Learns & Deep-Dives

C13
Open Intake Process

Want to Innovate but unsure where to Start?

- Problem Framing Workshop for Opportunity Mapping
- Peer Benchmarking & Trends Reports
- End User Focus Groups to discover pain points

Get in Touch with Us! [Innovation Form](#)

New Technology and Innovation

E13
Increase Biodiversity

E12
Reduce Consumption

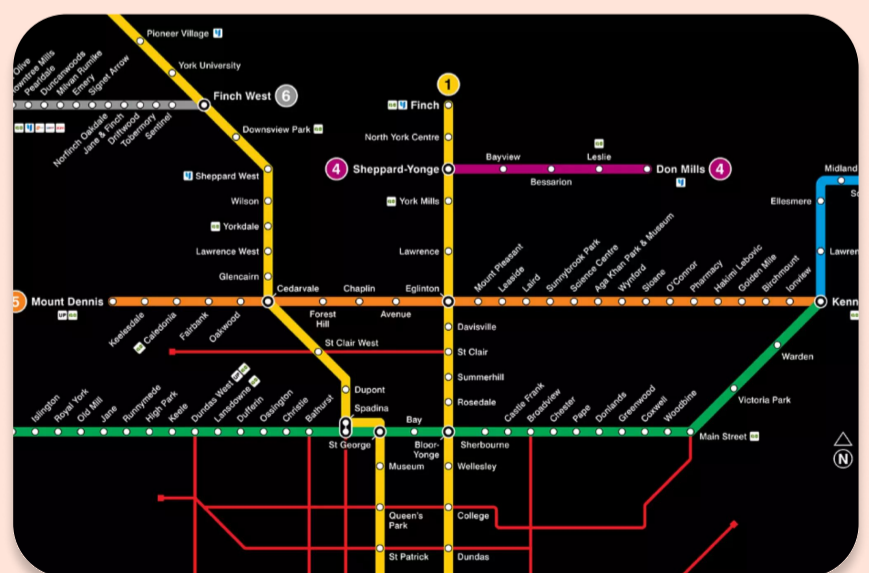
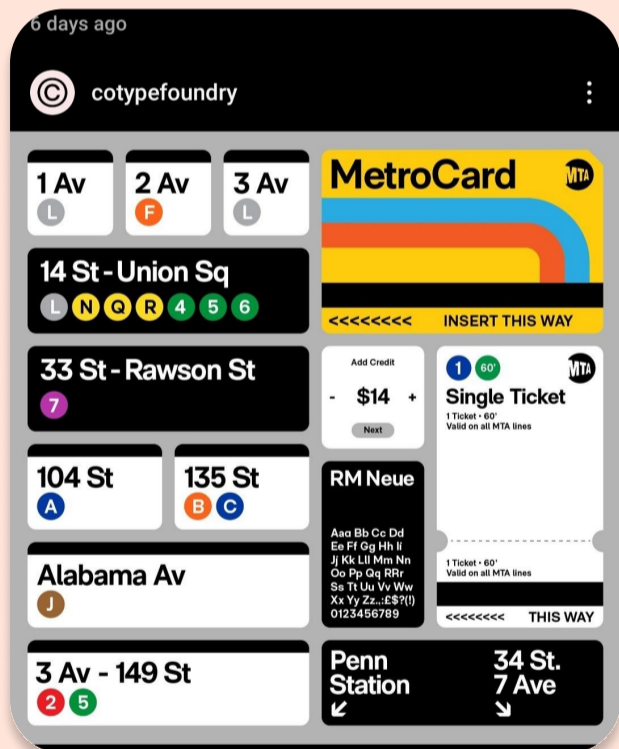
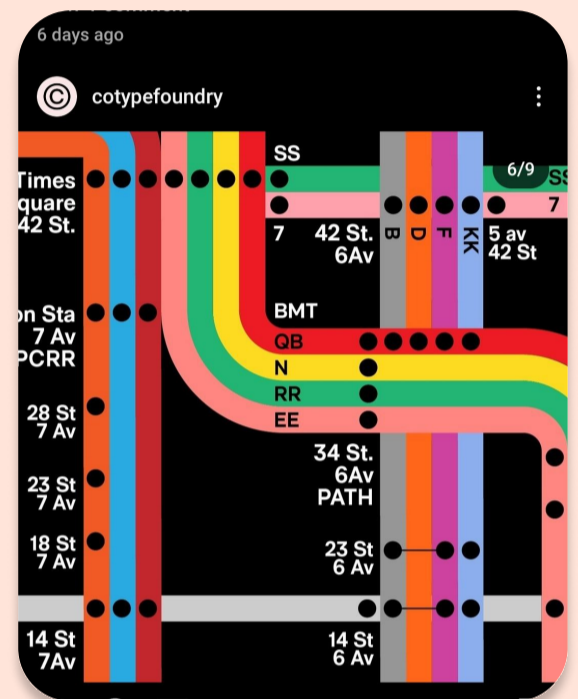
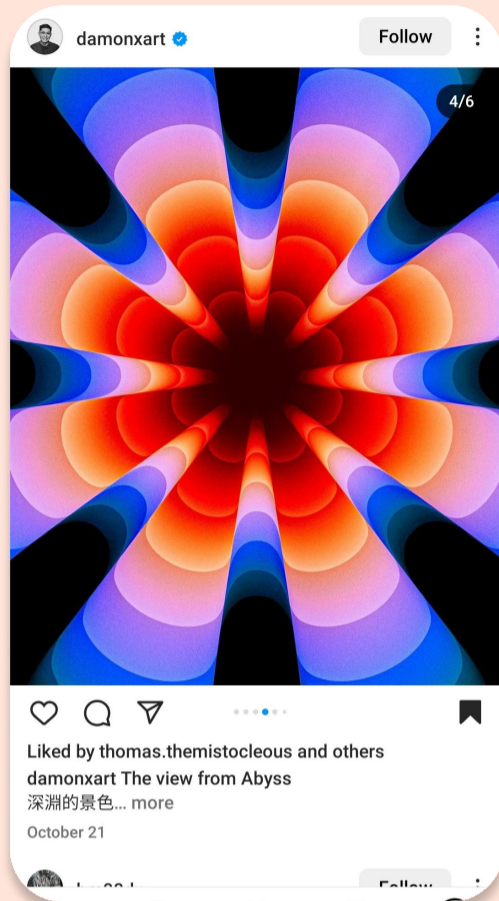
New Technology and Innovation

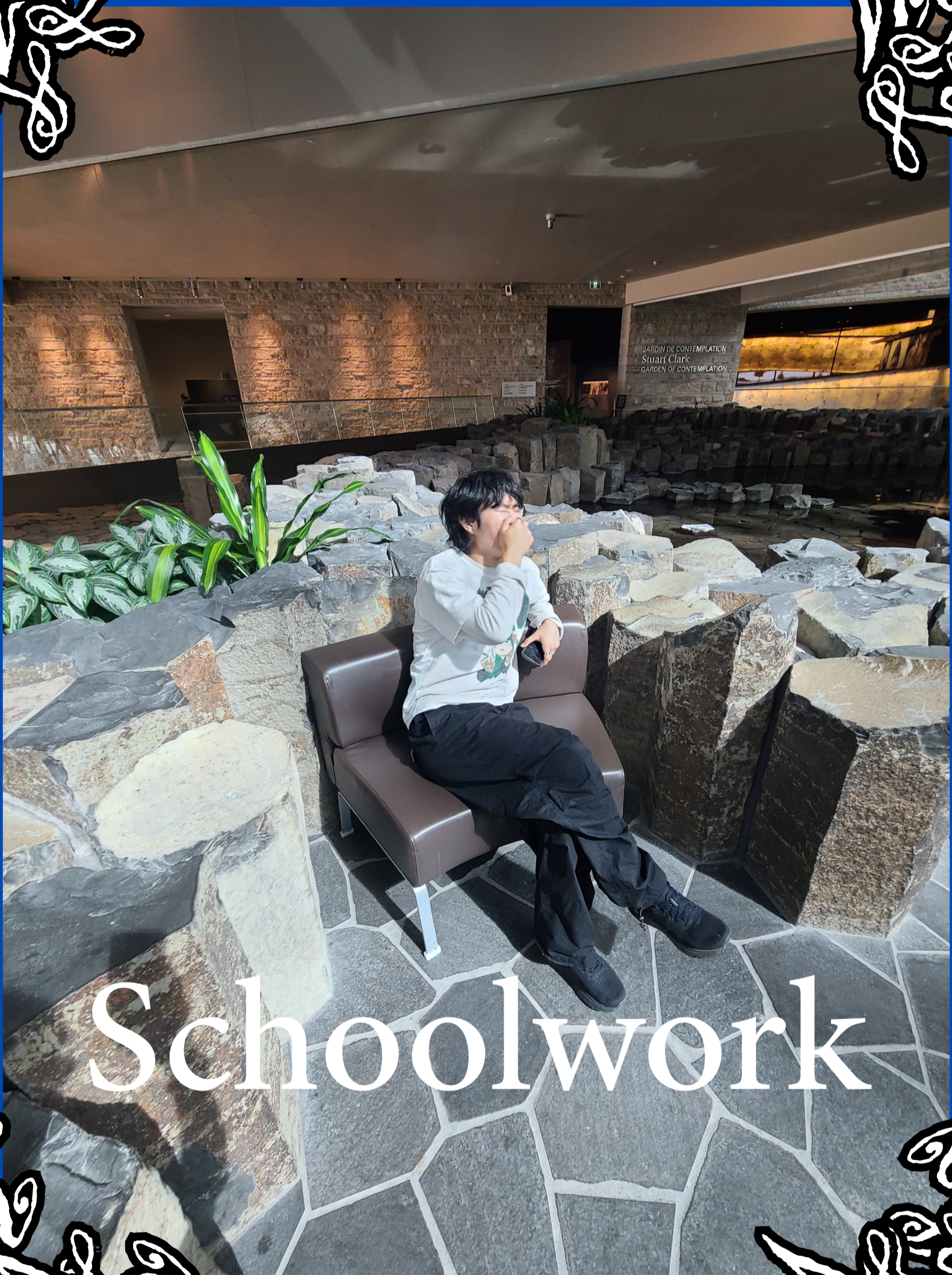
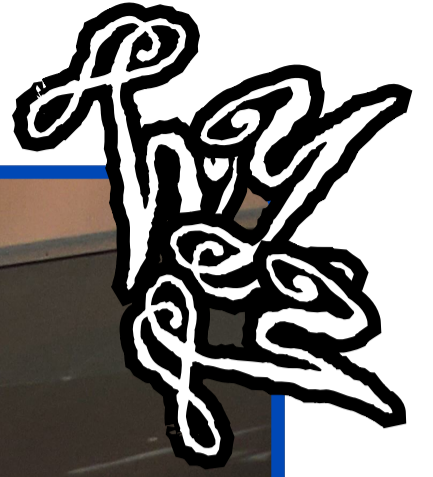
Get in Touch with Us! [Innovation Form](#)

New and Technology Innovation

1c) Co-op References

Issue



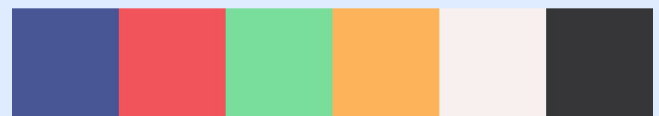
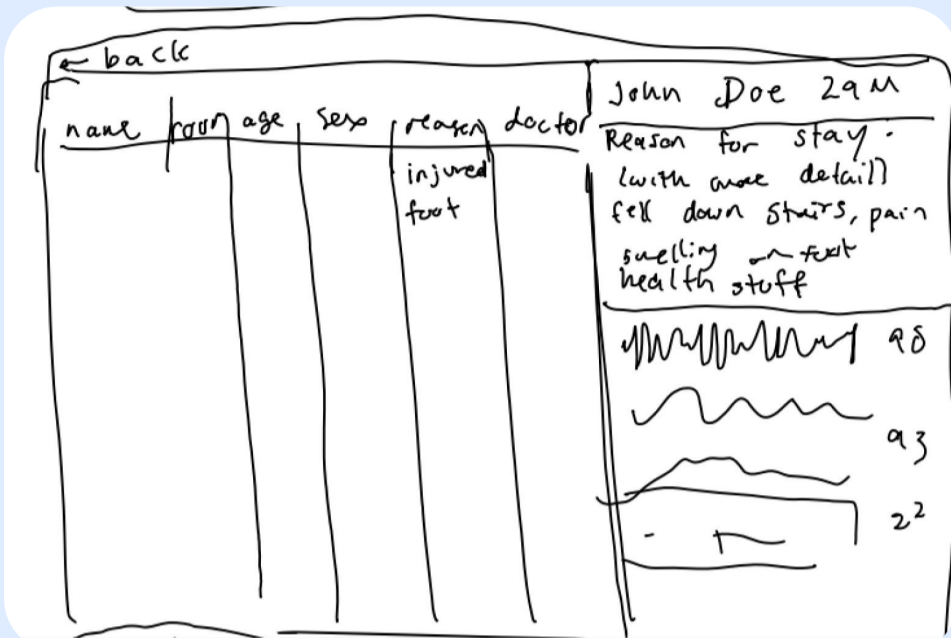


Schoolwork

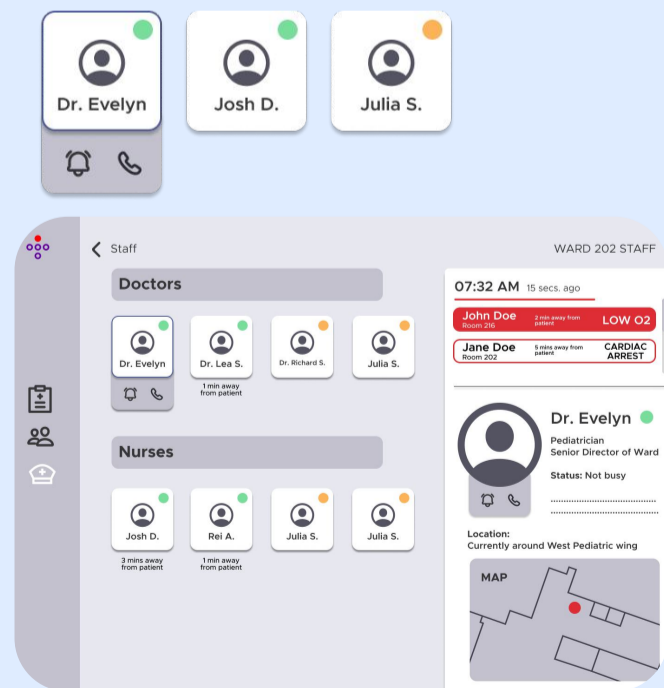
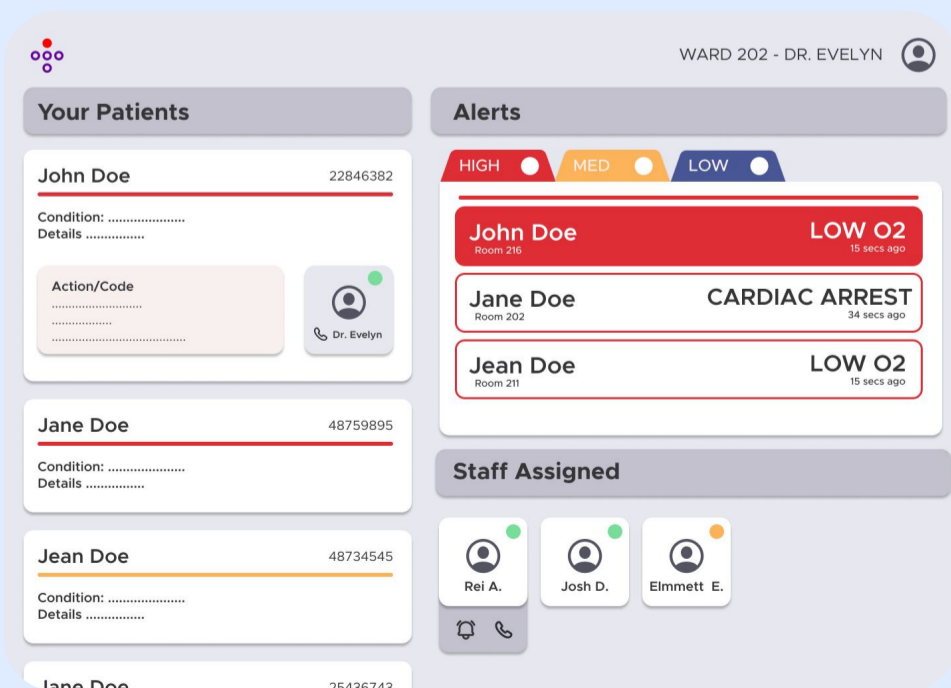
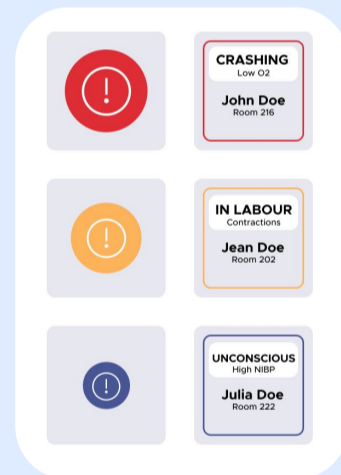
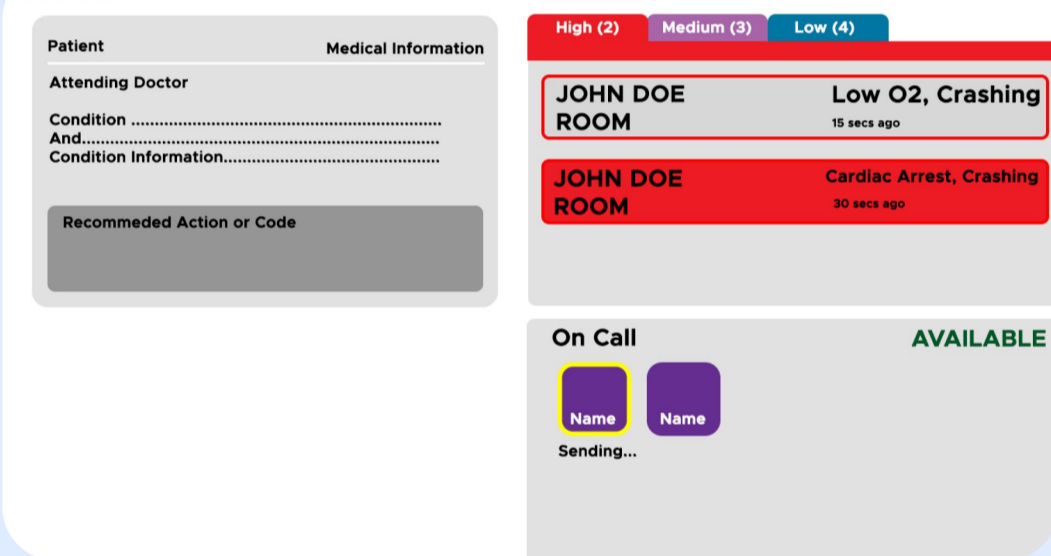


2a) Schoolwork Issue

Medical Alarm Software Design
Project for a 'Human Factors in Design' course. Ideation to full design.



ALRT WARD 202



2b) Schoolwork Issue

RECORDS WARD 400 STAFF 07:32 AM

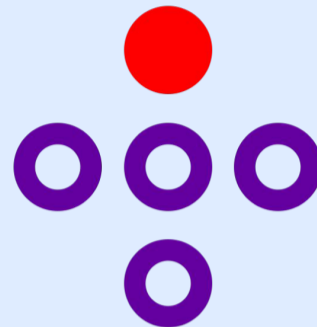
Search Records

Patients

ALRT Staff Map Modified

- Doe, John** 48759895 Condition: Details: ⚠️
- Doe, Jane 487512421 Condition: Details:
- Doe, Jim 487512355 Condition: Details:
- Doe, Jill 487535643 Condition: Details:
- Doe, James 487545437 Condition: Details:
- Doe, Jack 487534779 Condition: Details:

This list only shows current patients on the floor



RECORDS WARD 400 STAFF 07:32 AM

Search Records

Patients

ALRT Staff Modified

- Doe, John** 48759895 ⚠️
- Doe, Jane 487512421
- Doe, James 48753254
- Doe, Jill 487534779

Doe, John Sex: M Born: 1997-02-11 (26) 48759895

Room: 402

Attending Staff

- Dr. Evelyn
- Rei A.

Assigned Staff will always receive notifications and alerts specific to patient.

CRITICAL STATUS! ⚠️
Patient is crashing with signs of extremely Low Oxygen and needs immediate evaluation.
15 secs. ago

Patient Summary

- Preventions
- Medications
- Other Meds
- Ongoing Concerns
- Medical History
- Social History
- Family History
- Reminders
- Risk Factors
- Allergies
- Patient File

Patient Vitals

Electrocardiogram
Normal Settings: Patient Information Applied ⚠️

10 BPM

AKG
Normal Settings: Patient Information Applied ⚠️

24 BPM

When new device is connected it will show up here

RECORDS EQUIPMENT WARD 400 STAFF 07:32 AM

Doe, John Sex: M Born: 1997-02-11 (26) 48759895

Room: 402

Attending Staff

- Dr. Evelyn
- Rei A.

Assigned Staff will always receive notifications and alerts specific to patient.

CRITICAL STATUS! ⚠️
Patient is crashing with signs of extremely Low Oxygen and needs immediate evaluation.
15 secs. ago

Equipment

Electrocardiogram

Normal Settings: Patient Information Applied ⓘ
Real time updates will also show here

Status: ECG Recording ●

HR 75
BP 120/70 (87)
SpO₂ 95
ETCO₂ 32
RR 21
NIBP 140/70
Circ. O₂ 10
GCS 15
Rounds 4
Temp 37.5 trumonitor

Preset Connection Assessment

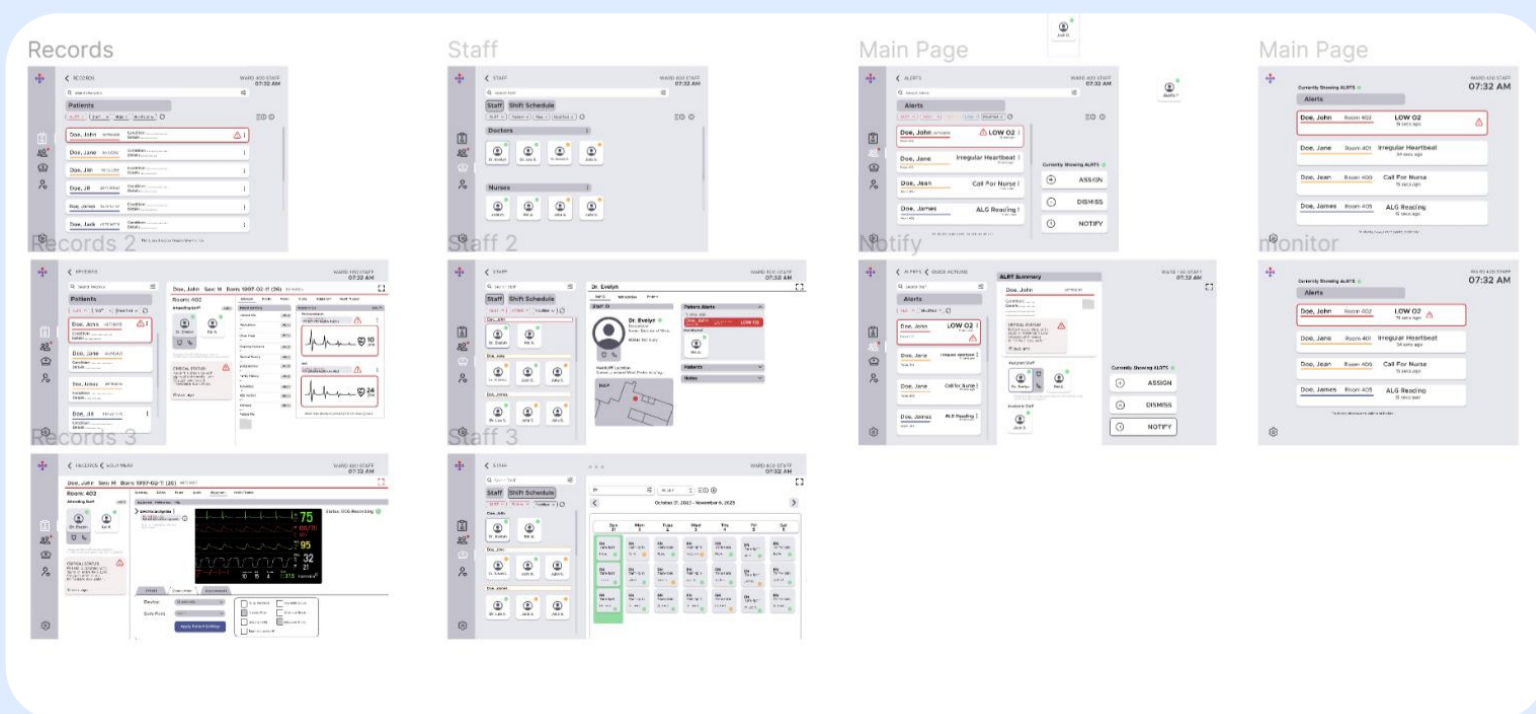
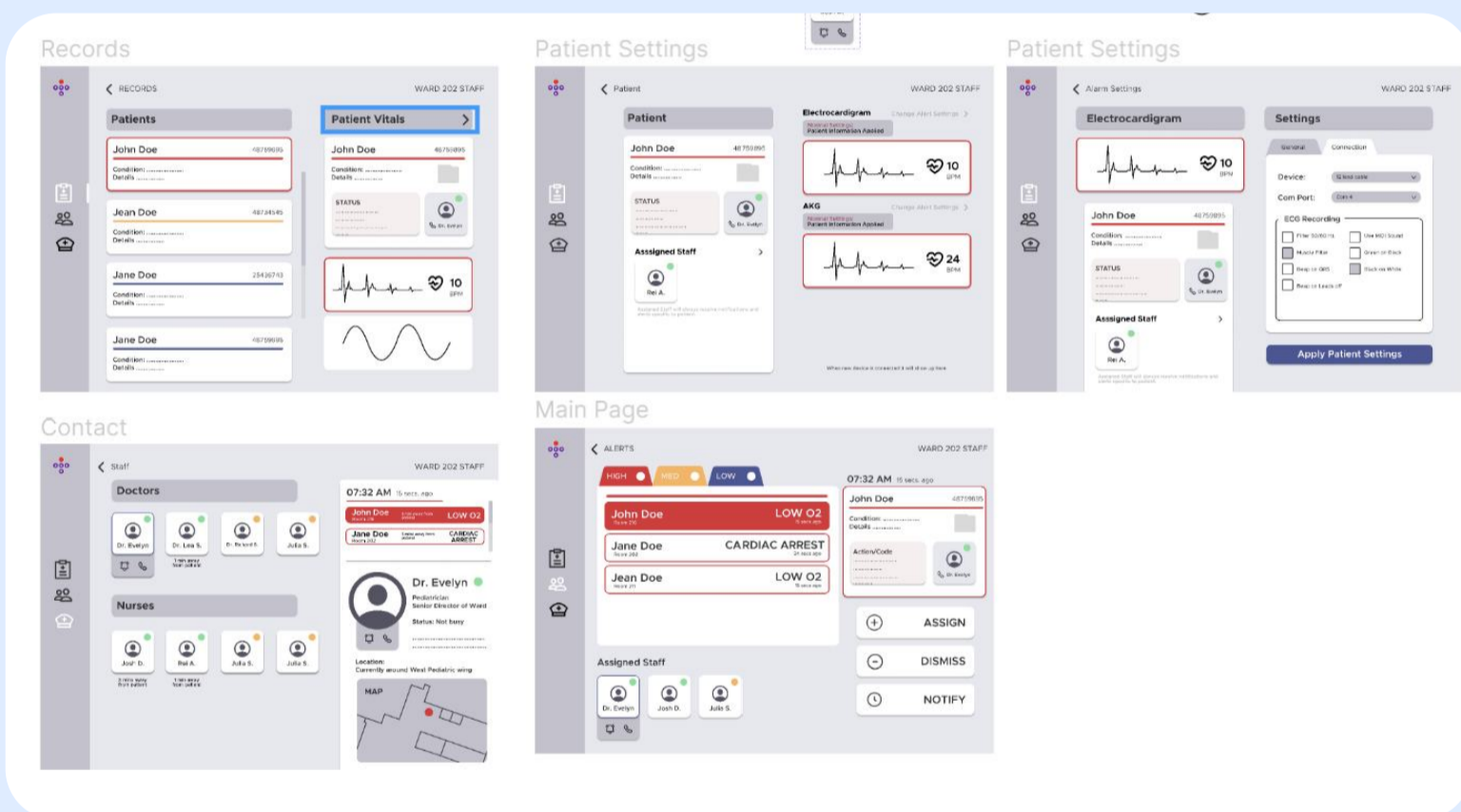
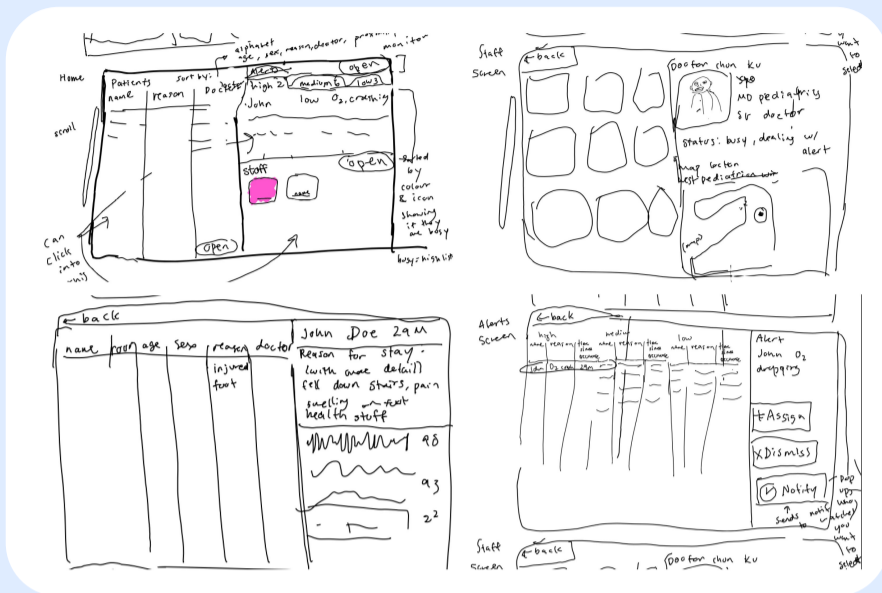
Device: 12 lead cable

Com Port: Com 4

Apply Patient Settings

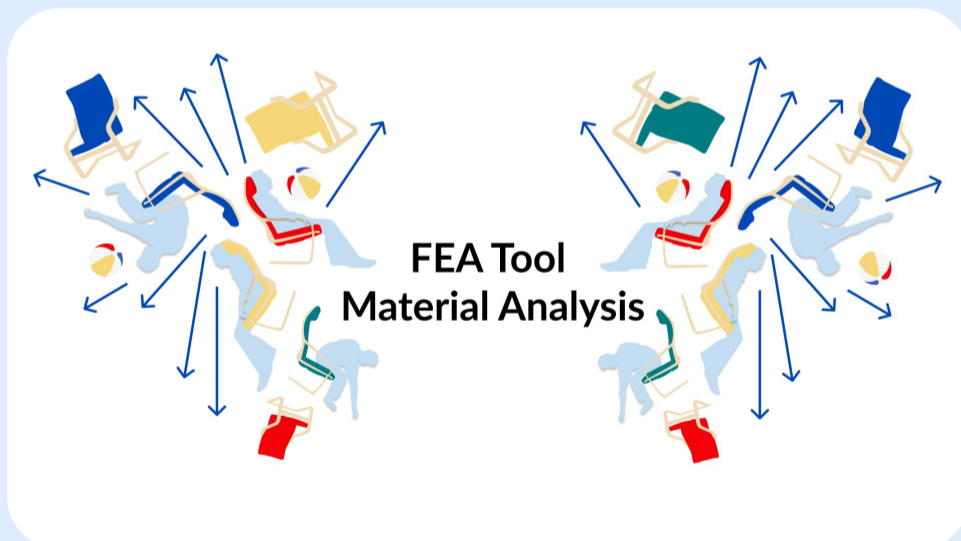
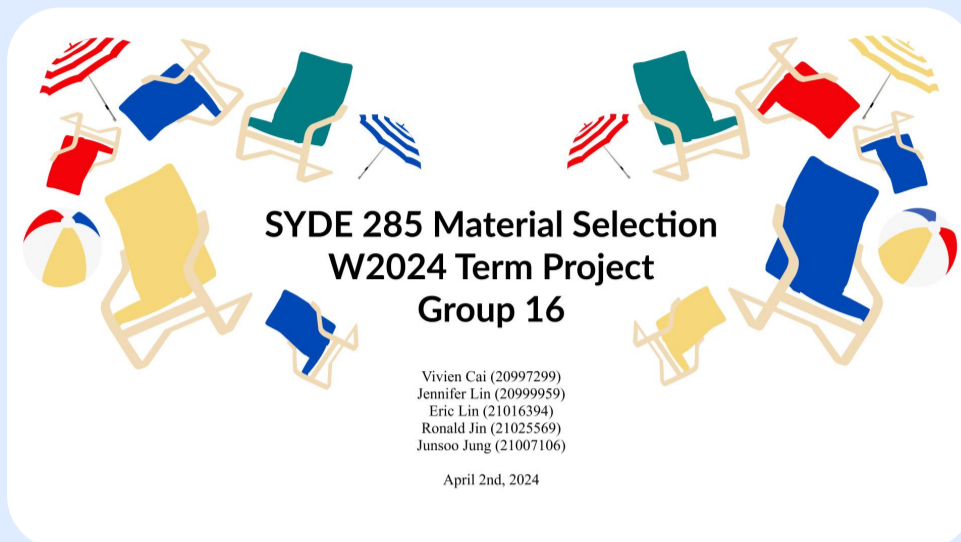
- Filter 50/60 Hz
- Use MIDI Sound
- Muscle Filter
- Green on Black
- Beep on QRS
- Black on White
- Beep on Leads off

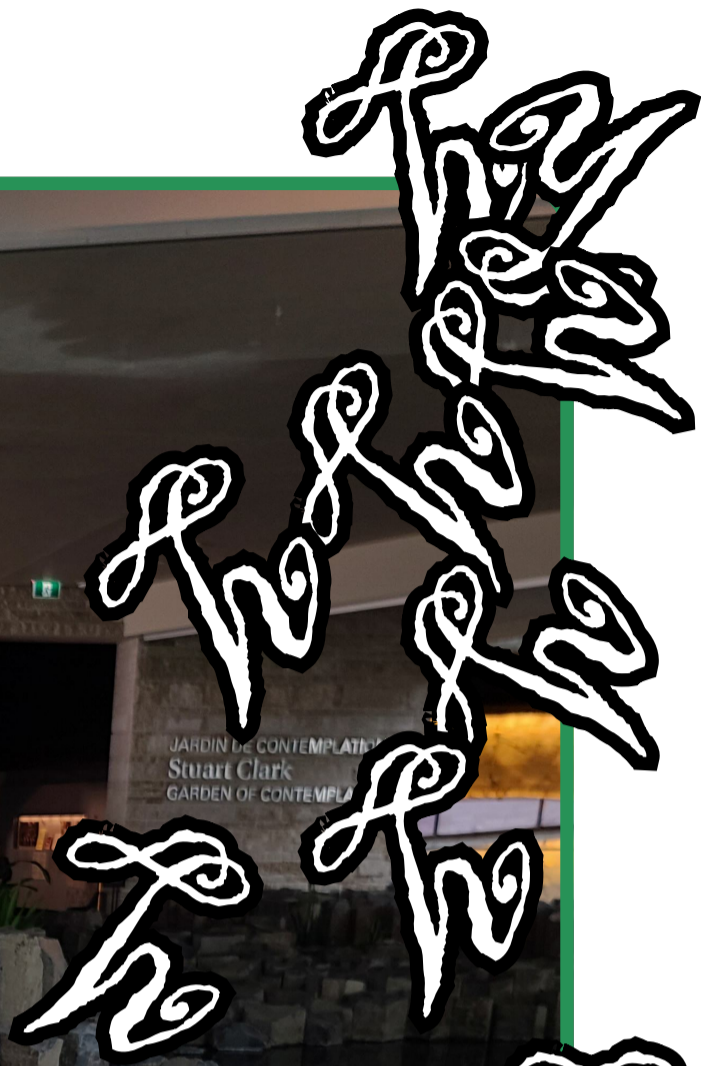
2c) Schoolwork Issue



2d) Schoolwork Issue

Showing iconography work in deck for a school project on chair materials.





Personal



3a) Personal Issue

*J*ersonal website design.

JUNSOO JUNG
WORKS
PORTFOLIO

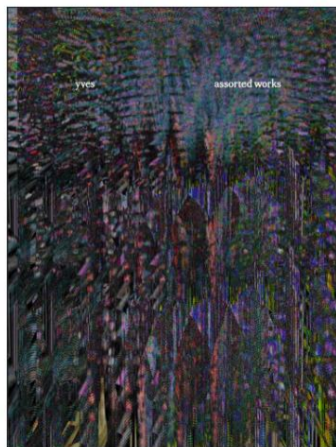


JUNSOO JUNG YVES
I DON'T HAVE MUCH TO
SAY
TIRED ALL THE TIME
GOODNIGHT

ALL
HOME
WORKS
PORTFOLIO



ALL
HOME
PORTFOLIO

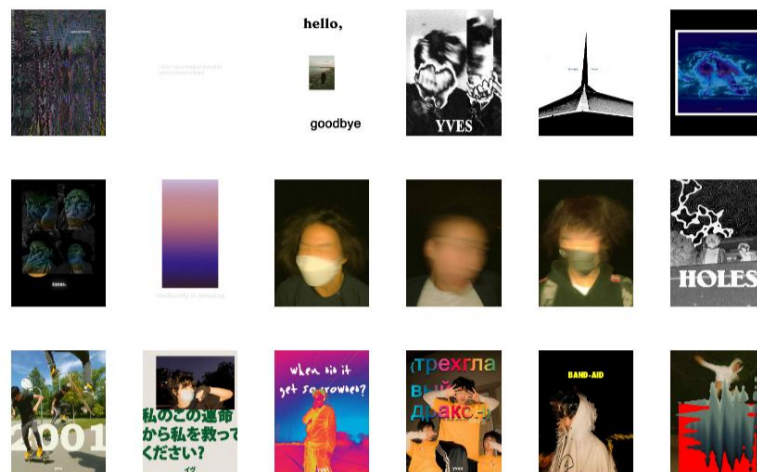


yves assorted works

ASSORTED WORKS

3b) Personal Issue

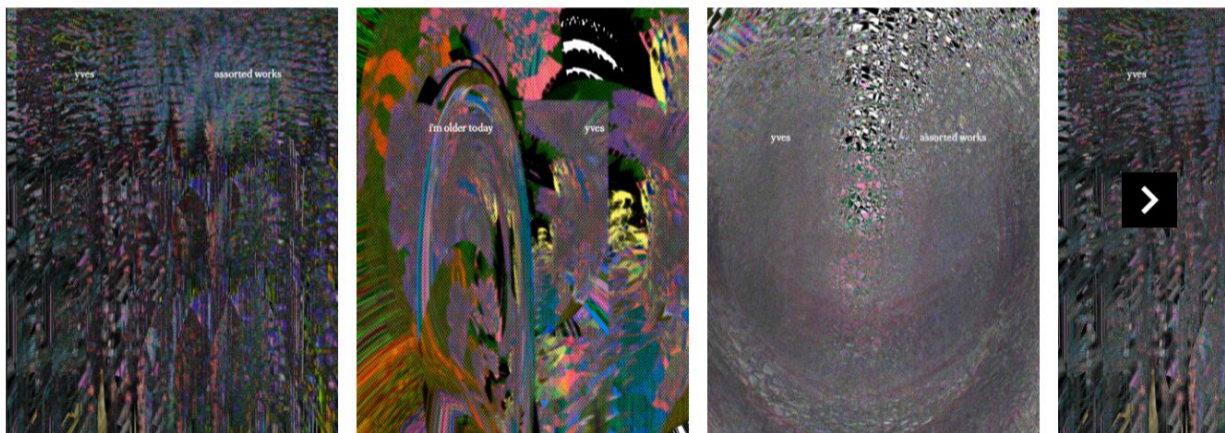
HOME WORKS PORTFOLIO



QKTHR

ALL HOME WORKS PORTFOLIO

ASSORTED WORKS




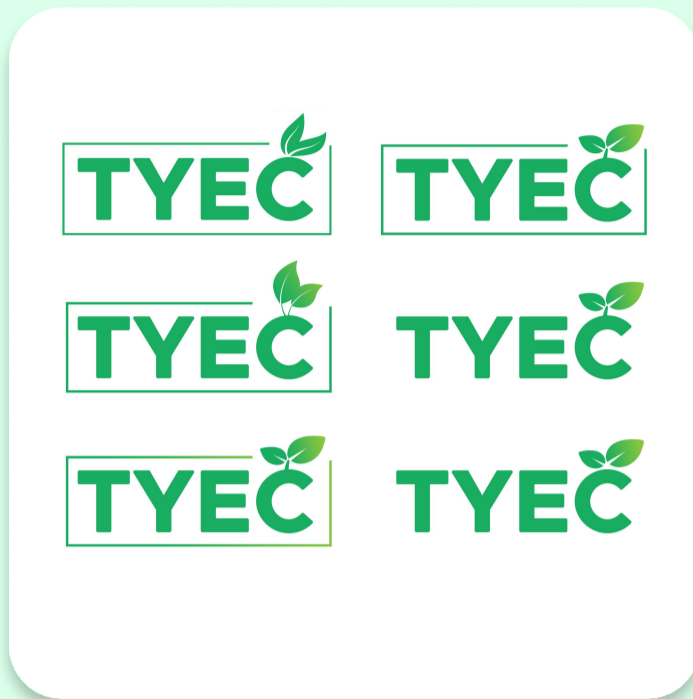
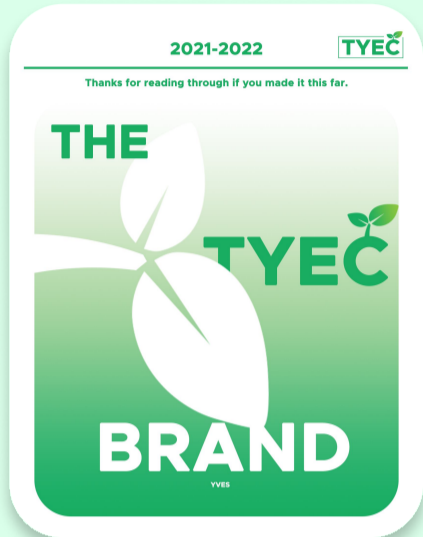
ALL HOME WORKS

[CLICK TO DOWNLOAD PDF](#)

PORTFOLIO 2022-2023
PORTFOLIO 2021-2022

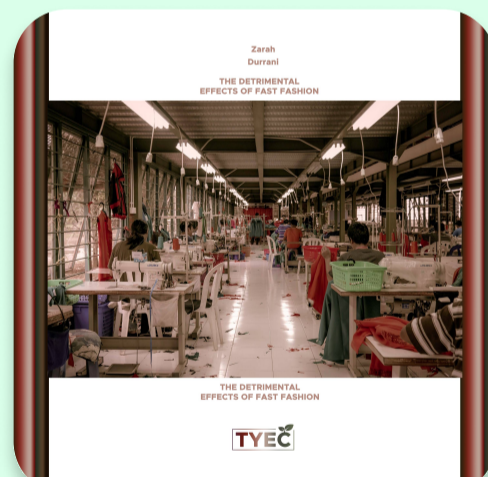
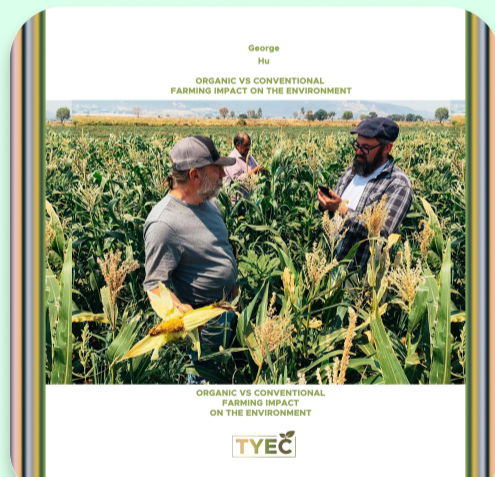
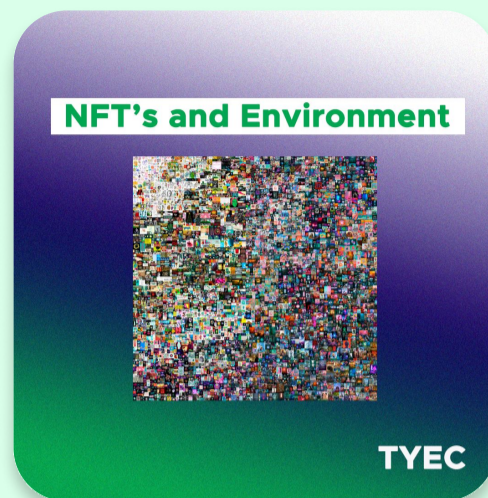
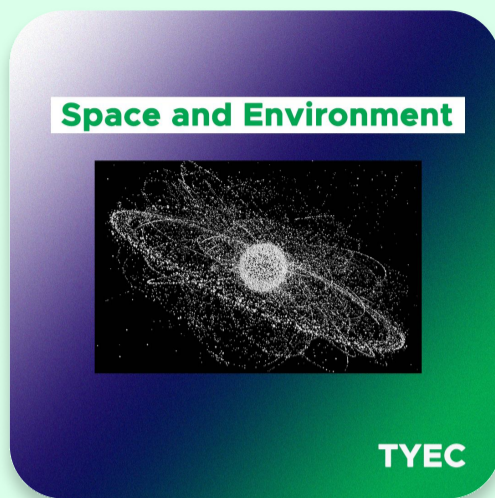
3a) Personal Issue

 Branding for the Toronto
Environmental Youth Council.



3a) Personal Issue

TYEC Posts for the Toronto Environmental Youth Council.



Ending Notes





This is the

All human beings are born free and equal in dignity and rights.
Tous les êtres humains naissent libres et égaux en dignité et en droits.

ending scene



Yves