

## EDUCATION

2018 - 2021

**BA (Hons) in Product Design**

**Goldsmiths, University of London**

First Class Honours &

Ngee Ann Kongsi Scholarship Recipient

2013 - 2016

**Diploma in Business Innovation  
& Design**

**Singapore Polytechnic**

## SKILLSET

- ★ **UX Design**
- ★ **Design Thinking**
- ★ **Industrial Design**
- 3D Rendering
- 3D Modelling
- 3D Printing
- Layout Design
- Axure RP
- Figma
- Rhino3D
- Keyshot
- Unity
- QGIS
- Photoshop
- Illustrator
- InDesign
- Solidworks

## CERTIFICATES

2016

**Certificate in Software Programming  
& Applications**

**Singapore Polytechnic**

## PUBLICATIONS

J. Masengo, J.H. Cheong, N. Van Duc Long, V. Soebarto, R. Swarup, V. Hessel, **Biophilic Plant Design: (Nano) Fertilising Barley in Hydroponics for 'Lush Space Gardens'**, Plant Physiology et Biochemistry, <https://doi.org/10.1016/j.plaphy.2025.110154>

Cheong, J. H., Budhyarto, M. ., & Koh, R. . (2022). **A Study on Improving the Experience of Space Tourists Through Biophilic Design.** Journal of Student Research, 11(1). <https://doi.org/10.47611/jsr.v11i1.1548>

## EXPERIENCES

06/2025 - Present

**Systems Solution Engineer**

**Thales Group**

06/2024 - 05/2025

**UX Design Engineer**

**Thales Group**

Designing command & control systems at the Public Security Centre of Excellence in Thales Singapore. Demonstrated possible use cases via a proof of concept on a new digital twin platform. Completed a range of tasks from requirement gatherings to creating UIUX mockups and 3D assets.

08/2023 - 02/2024

**Design Innovation Intern**

**Thales Group**

Served as the main UIUX designer for a high resolution prototype for situational awareness to allow multiple agencies within Ministry of Home Affairs to share a Common Situational Picture for quicker responses and operational efficiencies. Planned and facilitated Design Thinking workshops for external clients and stakeholders to identify needs and capability gaps with Thales Digital Factory.

02/2023 - 08/2023

**Industrial Designer**

**OoB Design**

Played a pivotal role in the new startup by going through market research, ideation, 3D visualization of office furniture concepts. Participated in the conceptual proposal of a new office chair design, which was launched as Goodtone's Kinetic Air.

06/2021 - 02/2023

**Industrial Designer**

**Arte Oro**

Designed high jewellery pieces and managed the full production cycle from conceptualization to manufacturing, while leveraging on innovative materials and Gen-AI to create unique pieces. Established an in-house wax 3D printing capability.

04/2015 - 08/2015

**UX Designer**

**PSD, Prime Minister's Office**

Proposed new services and facilities to alleviate future problems of Singaporeans, identified through trends and user interviews conducted with members of the public.

04/2014 - 02/2015

**UX Designer**

**National Healthcare Group Polyclinics**

Redesigning the Polyclinic Experience: Proposed innovative system designs for a new polyclinic, by identifying stakeholders and pain points through ethnographic research. Outcomes on patient wayfinding were implemented in the new Ang Mo Kio polyclinic.