

## **PROJECT DETAILS FOR FINAL SUBMISSION**

**Project Title:**

MAN AND MACHINE

**Student's Full Name:**

Teeradon Tananopparat

**Instructor's Full Name:**

Takumi Saito

**Course:**

Architectural Design 2

**Studio Brief Title:**

Urban Incubators

**Short Project Description (100 words max.):**

The Dockyard Redevelopment Project transforms a Chao Phraya River dockyard into a sustainable, multifunctional space for workers and their families. Using shipbuilding techniques, workers fabricate housing units with familiar tools, fostering adaptability and ownership. The site includes three zones: a communal riverfront area with vertical gardens, an optimized workspace with reorganized machinery, and a family wellness area featuring green spaces and playgrounds. Participatory governance empowers residents to maintain their spaces while inviting the neighboring community into shared areas. By blending industrial function with social and environmental well-being, the project creates a dynamic, inclusive ecosystem for living and working.

**Full Project Narrative/Text Description (300 words max.):**

The Dockyard Redevelopment Project reimagines an industrial dockyard along the Chao Phraya River into a multifunctional, sustainable environment for workers and their families. Historically a ship repair hub, the site has become not fully functional due to poor working conditions. This redevelopment prioritizes integrating living and working spaces while addressing social, environmental, and economic challenges.

Using vernacular shipbuilding techniques, the project repurposes dockyard materials like metal, allowing workers to fabricate modular housing units with familiar tools and processes. Two unit types—a single-bedroom for individuals and a two-bedroom for families—offer flexibility for residents. Reinforced structures and lightweight metal mesh floors support vertical expansion, enabling customizable spaces that can evolve into shared facilities. This adaptability fosters ownership and empowers workers to shape their environment.

The site is divided into three zones. The first, a communal riverfront area, features semi-open spaces with vertical gardens and recreational opportunities, inviting interactions among workers and the neighboring community. The second zone is the main workspace, optimized with a cantilevered podium

for oversight and reorganized machinery for streamlined operations. The third zone, dedicated to family and wellness, provides a safe retreat with playgrounds, green spaces, and trails, offering opportunities for leisure and bonding.

Project encourages workers to manage shared spaces and maintain their units using familiar ship-repair methods. Community engagement is further strengthened by opening public areas to the surrounding neighborhood. The Dockyard Redevelopment Project exemplifies a balance between operational efficiency and social well-being, transforming an industrial site into a dynamic ecosystem where work, living, and community coexist sustainably.