

TARWSTM™

Transformable automated robotic workspace

“Your Workspace, Reinvented.”

Technology

This Transformable Automated Robotic Workspace (TARWSTM) is a versatile, foldable, and tech-enabled work surface designed for both professional and educational environments. The system incorporates a wide range of features, including self-sanitisation, temperature monitoring, solar energy storage, wireless charging, and interactive digital capabilities, all aimed at creating an efficient and hygienic workspace. This compact and mobile solution can be transformed and adapted to different tasks and settings, making it a highly flexible workspace solution.

Market need

The TARWS addresses key market needs in a rapidly changing world. From space optimisation and hygiene concerns to tech-enabled productivity and sustainability, this innovative workspace is designed to meet the diverse demands of modern users across home offices, educational institutions, co-working spaces, and healthcare environments. Its combination of advanced technology, customizability, and environmental consciousness makes it a highly appealing solution for individuals and organisations aiming to optimise their workspaces for the future.



Features

- Transforms from a closed storage unit into a full-fledged robotic desk with the push of a button.
- A dual-sided work area features a standard surface and a grid-based side for engineering and technical tasks.
- Integrated headphones with microphone and VoIP system for calls and interactions.
- Powers the workspace independently, ideal for off-grid or remote settings.
- USB, standard plug points, and wireless charging pads to accommodate various devices.



Benefits

- Supports health standards with sanitisation and temperature checks, crucial in the post-pandemic period.
- Ideal for both static installations (schools, libraries) and mobile scenarios (events, rural outreach).
- Built with modularity and adaptability in mind, allowing for upgrades and integration with evolving technologies



Industry

Education

Potential applications

- Home and remote offices – adaptable workspace for professionals needing compact, tech-enabled, and hygienic setups.
- Educational institutions – interactive, transformable desks for digital learning, STEM projects, and collaborative environments.
- Co-working spaces – shared smart workstations that optimise space and provide personalised, automated features.
- Healthcare settings – self-sanitising and mobile work surfaces for safe and sterile environments.
- Engineering and design labs – dual-surface functionality supports precision technical and creative work.
- Field and off-grid operations – solar-powered, portable workspace for remote research, construction, or emergency response teams.
- Corporate and innovation hubs – demonstration units for showcasing sustainable and intelligent workspace solutions.

Creator

Poelinca Desire

Stage of development

Early stage

Intellectual property

Patent Protection

Desired relationship

Co-development partner, Investors