



# Advance Ergonomic Desk

**A fully electric standing desk that is optimized for improved ergonomics, mobility, and collaboration needs of home office users.**

**IP Status:** Provisional Patent Application Filed; **Application #:** 63/057,420

## Applications

- Office / home office furniture

## Key Benefits & Differentiators

- Fully electric design with integrated battery and controls
- Modular architecture: easy to scale up or down the overall design
- Height and tilt adjustment for optimal posture adjustments
- Cord-free, easy cable management, and no extension wire needed
- Self sustainable design with solar integration (option)
- Fail safe design, safe operation, and improved stability design features
- Customization capabilities to optimize for various users' needs
- Self-aligning features for interchangeability, installation, and maintenance

## Overview

The projected market size of the Desks & Table segment of the Office Furniture market in 2025 is set to be \$3-4 billion in the US alone. Increased awareness towards negative effects of a sedentary work environment has fueled the adaptation of standing desks. While standing desks have created a sizable improvement in user health and work-satisfaction, currently available models have several drawbacks: heavy, not portable, requiring power source, minimal customization. Researchers at the University of Minnesota have developed a portable, fully electric standing desk that is optimized for improved ergonomics, mobility, and collaboration needs of home office users and various other applications. The cord-free design of this desk enables user mobility - users can walk over to a colleague without leaving their workstation. With integrated robotics, users can wirelessly control, and even summon the desk. Integrated advanced technologies improves productivity, flexibility, convenience, and collaboration.

## Phase of Development

**TRL: 5-6**

Prototypes developed and tested.

## Researchers

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## Category

Engineering & Physical  
Sciences/Design Specifications

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