

# Assembly Line Design Application (ALDA)

**Inventor:** Dr. S. Abdinnour

**Identification Number:** 15TT100

## Technology

The Assembly Line Design Application (ALDA) by Dr. S. Abdinnour, WSU professor for the W. Frank Barton School of Business, is web-based software that allows operation managers, directors, project managers and supervisors to design an efficient manufacturing assembly line. The software was built for manufacturing complex products like aircraft. However, it can be used for virtually any product. Designing an assembly line without use of intuitive software can result in an inefficient assembly line that incurs huge manufacturing and inventory costs. ALDA can help in designing (or redesigning) an assembly line to be efficient, with as few workstations as possible, and by ensuring that tasks assigned to a workstation are completed in that workstation. ALDA utilizes the unique concept of zones in a workstation, which minimizes the total number of workstations (Work-In-Progress inventory). ALDA runs in the background with established algorithms and is not simply a drawing tool. ALDA can be commercialized at a reasonable competitive price that encourages companies to adopt it and design a cost-effective, efficient assembly line.

## Benefits

- Web-based, so it can be accessed from any browser with a secure login
- Can be commercialized at a reasonable competitive price
- Increases efficiency of the assembly process
- Decreases inventory and manufacturing costs
- Handles different projects/assembly line designs by the same user/project manager

## Application

- Manufacturing companies assembling a complex product (like an aircraft) on a paced assembly line
- Manufacturing companies that are engaged in assembling *any* product, even simple ones, on a paced assembly line or in a cell
- Any supplier using a paced assembly line in the supply chain of a manufacturing company

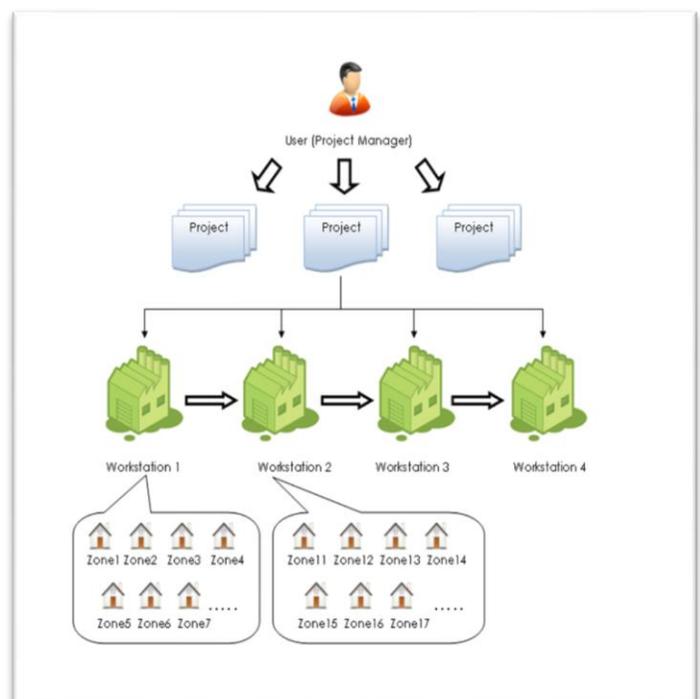
## Opportunity

- Available for license/purchase and patent-pending
- Potential for ongoing collaboration with inventor, Dr. Sue Abdinnour and WSU Researchers

## Contact

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## ALDA Design



\*Chart designed by Hendry Gunawan