
Donald J (Don) Hartz

Director, Manufacturing and Material Handling Best Practices Group

Education

M.B.A., Shippensburg University, Shippensburg, PA

B.S., Industrial Engineering, University of Pittsburgh, Pittsburgh, PA

Professional Credentials

- Over 30 years of professional experience in industrial engineering, manufacturing management, engineering consulting and project management
- Project background includes all facets of manufacturing, material handling, warehousing and distribution center design
- Extensive engineering and project management background from project data collection, analysis and conceptual design through start-up
- Manufacturing and material handling experience includes: Commercial and military aviation Maintenance Repair Overhaul (MRO), printing, automotive parts, pharmaceutical, appliances, and general manufacturing
- Engineering roles performed or managed include: Lean transformation, manufacturing, and Industrial Engineering
- Areas of expertise include: application and implementation of automated warehousing and distribution systems, implementation of Lean methodology in manufacturing and re-manufacturing industries

Selected Experience

CH2M HILL LOCKWOOD GREENE - Spartanburg, SC 2002-2009
Principal Project Manager.

Various client engagements, including:

HILL AIR FORCE BASE LANDING GEAR FACILITY - Ogden, UT
Project engineer and site manager - Lean Transformation planning and implementation

Audited 1,200 pieces of equipment and 9,000 process steps on Master Routings involved in the remanufacture of landing gear

Developed process flow diagrams (PFD's) and Value Stream Maps (VSM's) to identify areas of improvement

Worked closely with Hill AFB teams to develop over 46 potential improvements and projected reduced floor space and flow days

Capital constraints resulted in selection of the top 18 improvements for further evaluation and implementation

Completed designs and developed bid specifications for equipment including upgraded cleaning system, machining and grinding equipment to complement the plating shop, and integration of Wheel and Strut paint systems into a new combined Wheel and Strut Prime and Finish Paint System

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Contracted the work and managed contractors during the design, installation, and commissioning of new equipment

Accomplished project with minimal downtime to the operation

Hill AFB program accounting reported that the Lean Transformation project had achieved its complete ROI within the time frame of the initial 3 year contract period.

THOMSON MULTIMEDIA, INC., Scranton, PA and Mexicali, MX

Project engineer - relocation and start up of color picture tube manufacturing from US to Mexico

More than 120 processes involving over 3,000 pieces of equipment involved

Provided extensive site support for the reinstallation and physical checkout of the equipment

Testing and commissioning was performed following relocation and re-installation

ELI LILLY - Manassas, Virginia

Lead project engineer - warehousing and material handling design of new manufacturing facility

Design included both conditioned and cold Automated Storage and Retrieval Systems (AS/RS) that met critical temperature and humidity requirements

NORTHROP GRUMMAN, Newport News, Virginia

Lead project engineer - capital budgeting information for three proposed projects to support increased Virginia Class Submarine (VCS) production

Projects included increased press capacity, heat treat capability, and Machine Shop capacity

Machine Shop scenarios, involving different buildings, were developed and reviewed

Executive summaries, preliminary project schedules and ROM cost estimates were prepared for management

MOEN INC., Sanford, NC

Project engineer - Visioneering master planning session

Project involved relocation of production equipment from OH facility to the operation in NC

Visioneering used to identify master planning of the move and future facility layout

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CYTEC - Greenville, SC

Project engineer - facility expansion

Specification and bid document preparation for related material handling equipment ranging from material handling vehicles and specialized pin carts to Inspect and Pack lines

Provided bid review, analysis, and recommendation services

OPERATIONS ASSOCIATES - Greenville, SC 1997-2002
Engineering Associate.

Various client engagements, including:

TOYOTA USA - Hebron, KY

Project engineer - Toyota's new North American Parts Distribution Facility

The 850,000-square-foot parts distribution center processes and stocks parts from North American suppliers, primarily for repair and service of Toyota vehicles built at its plants in Kentucky, Indiana, California, West Virginia, and Ontario

Provided material handling and racking design

Supplied specifications, bid review and award services

DISCOUNT AUTO PARTS - Gallman, MS

Project engineer - new automotive parts distribution facility

The 400,000-square-foot facility stocks and distributes parts to more than 150 of the company's stores, with expansion capability to more than 450 locations

Design included two specialized automated pick carousels for rapid picking of bulk oils

Provided integrated system of double-tiered pick carousels and carton and pallet flow pick modules

Design was given the "2002 Productivity Award Winner in Distribution" by Modern Materials Handling magazine

DRAEXELMAIER - Duncan, SC

Project engineer - warehousing design

This facility stocks and distributes wiring harnesses, injection-molded components, and leather-wrapped parts to BMW's manufacturing facility on a just-in-time basis

Design included narrow-aisle storage with turret vehicles

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LOCKWOOD GREENE ENGINEERS, Spartanburg, SC 1986-1997
Engineering Consultant.

Various client engagements, including:

**AMERICAN AIRLINES, TULSA HEAVY MAINTENANCE BASE -
Tulsa, OK**

Project engineer - heavy maintenance automated warehouse; Turbine Engine Overhaul facility

Facility included a 7-aisle Mini-Load AS/RS, Tote and Pallet handling conveyor systems, Radio-Frequency controlled bulk picking system, and supervisory computer system

Implementation services included site installation review, system testing, and system acceptance

Performed project planning for expansion of engine overhaul facility and relocation/ reorganization of equipment

**AMERICAN AIRLINES, DFW LINE MAINTENANCE BASE -
Dallas, TX**

Project engineer - line maintenance warehouse servicing local hangars and remote stations

Facility design included a three-aisle unit-load AS/RS and a three-aisle mini-load AS/RS

Also included in the design were tote and pallet handling conveyor systems, radio frequency controlled bulk picking, an automated electrified monorail delivery system, and supervisory computer system

Implementation services included site installation review, system testing, and system acceptance

**UNITED AIRLINES, DENVER INTERNATIONAL AIRPORT,
CONCOURSE B, AIRLINE PARTS DISTRIBUTION FACILITY -
Denver, CO**

Lead project engineer – airport automated warehousing and distribution system

Services included data development, conceptual design, specification development, and bid evaluation for parts distribution facilities on airport concourse

Facility design included a four-aisle mini-load AS/RS and 10-inch pneumatic tube parts distribution system

Pneumatic Tube system was largest operating system at time of installation

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Implementation services included site installation review, system testing, and system acceptance

UNITED AIRLINES, NORTH TERMINAL EXPANSION, AIRLINE PARTS DISTRIBUTION FACILITY - San Francisco, CA

Lead project engineer -second airport automated warehousing and parts distribution system

Design included a four-aisle Mini-Load AS/RS and 10-inch pneumatic tube parts distribution system

Services included data development, conceptual design, specification development, and bid evaluation

BOEING SPARES PARTS DISTRIBUTION CENTER - Seattle, WA

Project engineer - new maintenance stores facility

Work included equipment specifications, cost analysis, conceptual design, controls definition, and layout for a 750,000-square-foot facility

Major pieces of equipment included high-rise hybrid truck rack storage and overbox carousels in shipping

J. C. PENNEY - Alliance Airport, Fort Worth, Texas

Project engineer - new Alliance airport distribution facility

The facility included an automated case receiving system with integrated palletizing, an AGV transfer system, and VNA (very narrow aisle) storage system with radio frequency controlled turret and order picker vehicles

Two 10-aisle unit load AS/RS units provided bulk storage

High velocity picking included tote and pallet flow rack systems equipped with pick-to-light, take-away conveying systems and a high-speed sortation system

R. R. DONNELLEY AND SONS - Spartanburg, SC

Lead project engineer - automated material handling systems for printed catalogs

Project involved construction of the AS/RS and complete relocation of the Bindery and Shipping areas within the facility

The facility included a three-aisle, 100-foot tall, work-in-process, automated storage and retrieval system (AS/RS).

Robotic palletizing was used to automatically stack material from the printing presses

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An automated guided vehicle (AGV) fleet of forked and roller bed vehicles transports material from robotic palletizing to the AS/RS, the binding lines, and finally to shipping

Facility was completely retrofitted without disrupting operations

PPG INDUSTRIES INC., Shelby, NC **1984-1986**
Industrial Engineer.

Duties included facility Industrial Engineering studies, capital appropriation development and project implementation management

Developed and maintained time studies to establish staffing levels for the Special Fabrication and Forming departments at the fiberglass facility

PPG INDUSTRIES, INC., Carlisle, PA **1977-1984**
Industrial Engineer/ Production Engineer

Major duties included maintenance of the plant's capital budget, development of appropriation requests for capital expenditures and project management during implementation of a number of those capital projects; various Industrial Engineering studies

Coordinated delivery, storage, and issue of refractory materials during a major float glass furnace rebuild at the facility

As opposed to manual glass removal, employed a backhoe fitted with a jackhammer which substantially reduced the duration of the furnace teardown

Also served as the Manufacturing Engineer in the Tempering department with production responsibility for operation of the two glass tempering hearths; 3 supervisors and over 60 employees

ADDITIONAL CLIENT ENGAGEMENTS:

- General Electric, Greenville, SC - equipment and warehousing relocation planning
- Honeywell, Greer, SC - relocation and installation of MRO equipment from GA to SC and process reorganization
- Elkay, Lumberton, NC - warehousing upgrade
- Bondo, Atlanta, GA - distribution facility layout and slotting analysis
- Worthington Foods - process expansion study
- Titleist/ Foot Joy, New Bedford, MA - North American distribution center consolidation master planning and design
- Hexcel Schwebel, Anderson, SC - warehousing relocation and operations planning
- Manifattura di Legnano, Milan, Italy - operations consolidation master planning

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- County of Santa Clara, Santa Clara, CA – emergency supplies distribution center master planning and design
- Procter & Gamble, Greensboro, NC – material handling equipment specification
- International Resistive Company, Boone, NC/ Barbados – material handling equipment specification
- Baxter Healthcare, Kingstree, SC – inventory rationalization study