

FORCON INTERNATIONAL

RICHARD B. GIBSON

EDUCATION

B. S. Mechanical Engineering - University of Pittsburgh
M. S. Management - Frostburg University

SUMMARY

Mr. Gibson is a proven leader among Automotive Engineers both technically and managerially for the past 35 years. An intricate knowledge has been gained in vehicles such as Heavy-duty trucks, busses, agriculture tractors and golf cars. There are few engineers that have this in depth knowledge of highway vehicles.

AREAS OF EXPERIENCE:

Vehicle Design	Vehicle Electronics
Testing	Suspensions
Failure Analysis	Statistics
Diesel Engines	Engine Intercooling
Gaseous Emissions	Two Cycle Engines
Heavy Duty Transmissions	Plant Layout
Automatic Transmissions	Processes
Axles	Machines
Differentials	Tooling
Chassis	Computer Systems
Cabs	CAD: CATIA, ProE, MacAuto
Styling	Dealer Order Entry Systems
Expert Witness	Field Service

The combination of technical training and education coupled with vast managerial experience permits Mr. Gibson to analyze difficult problems while keeping an overall objective view. He has investigated numerous accidents and vehicle fires. In the corporate world he has been deposed many times to testify as an expert witness.

CAREER HISTORY

Bering Truck Corp., Front Royal, VA - Vice president Engineering - Start-up truck company importing and manufacturing Hyundai Trucks classes 5 thru 8.

Orion Bus Industries, Ontario, Canada and Utica, NY - Director of Engineering - Manufactured commercial/municipal buses, developed new products and carried out daily production in two locations and countries.

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Blue Bird Corp., Macon, GA - Vice President Engineering - Being the leading producer of school and commercial bus products, the 130+ employee Engineering Department developed new products at a very high throughput rate.

Ford New Holland, New Holland, PA - Manager, Transmission Design and Development Ford New Holland (FNH) is a world –class manufacturer of agricultural equipment. Managed a group of engineer’s with-in a matrix-style organization, designing and developing high tech tractor automatic transmissions.

E-Z-GO Textron, Augusta, GA - Vice President Engineering - E-Z-GO is a leading producer of utility vehicles for sport and industry. Directed 70+ technical employees in the design, development and manufacturing engineering of golf related vehicles.

Mack Trucks Inc., Allentown, PA - Chief Engineer, Vehicle Development - Fully integrated manufacturer of class 6,7 & 8 heavy-duty trucks. My experience began with Mack engine design and moved with promotion through transmissions, drive trains, chassis, cabs, and complete truck testing culminating as Chief Engineer Advanced Vehicles managing over 100 employees.

U.S. Army, Ordinance Hawk Missile Supply - SP4 - Two years in Germany, secret clearance.

Accomplishments:

Product and Technology:

- In busing, 20 new major products were brought to market. The John Deere Natural Gas Engine, 4 new over-the –road luxury coaches and an aluminum/composite bodied small bus. Complete rationalization of the school bus body and chassis product line.
- Clean sheet of paper truck, called the CH, was developed.
- Developed an off-highway durability track for trucks.
- Reduced time/cost of wind tunnel testing.
- A series of transmissions was developed at both Mack and Ford New Holland, developing synchronizers for range and automatic shifts.
- Developed modal analysis for solving vibration problems.
- A 998 cu. in. V8 engine was designed and developed.
- Developed air-to-air intercooling.
- Derived a humidity correction factor for gaseous emissions.
- Designed new oil pump and delivery system.
- Solved a major field problem through the design of an injection pump drive.

Manufacturing:

- Achieved product leadership in bus paint and finishing.
- Solved design and manufacturing problems for Ford New Holland Tractor transmissions in Antwerp, Belgium and Osaka, Japan.
- At Mack significant improvement in relationship between manufacturing and design was obtained during my tenure.

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- Huck chassis fasteners greatly improved manufacturing and product joint integrity.
- Installed process with AMTECH Inc. that placed customer spec'ed chassis wiring harnesses in line set sequence.

Systems:

- Installed 9 new productivity systems at Blue Bird.
- Instituted a Simultaneous Engineering program, with large gains in productivity.
- Developed product configurator software used by 60 dealers to drive orders directly to the MRP system.
- Service publications INTERLEAF software was initiated.
- CAD systems CATIA Version IV, McAuto, and Applicon.

People:

- Updated technology levels by hiring skilled personnel, teaching and training; but, at the same time, reduced or maintaining head count. There is a long established reputation of being able to attract excellent talent and maintain high morale.
- Numerous effective technical consultants have been used.

Budgets:

- Budgets as high as \$24 million have been managed in operating and capital. Staying with in budget is a given.

PROFESSIONAL AFFILIATIONS

Member Society of Automotive Engineers,
Chairman Cumberland Valley Section 1976
Chairman Lehigh Valley Section 1986

PATENTS

Inventor, Patent No. 3,786,792, Variable Value Timing System issued January 22, 1974. Trade name Dynatard Engine Brake.

PUBLICATIONS

SAE Paper No. 210557, The Mack Maxidyne, ENDT865 with Dynatard Engine Brake, 1971.
SAE Paper No. 852350, Air Isolation of Class 8 Highway Tractor Cabs. 1985.
SAE Paper No. 952611 Blue Bird's Alternative-Fueled Buses.