

# ***BIOGRAPHY***



## **James R. Carroll**

Cost Engineer, Munro & Associates, Inc.

Jim Carroll joined Munro & Associates, Inc. in 2016 with 40 years of automotive-related experience. Jim received his Bachelor of Mechanical Engineering degree from General Motors Institute (now Kettering University), while doing his co-op work sessions at Fisher Body Division Central Engineering. He then went on to earn his Master of Business Administration from Wayne State University.

Jim had numerous assignments in product development at GM, including design release engineer, development engineer, vehicle program prototype-build coordinator, lead engineer, launch manager, and subject matter expert. Jim had the opportunity to work in both Canada and the UK, and lived in Mexico for two years while launching two new vehicle programs. As a subject matter expert, Jim developed the global product strategy and execution for the various vehicle segments, as well as benchmarking competitors' products.

- Led a team of engineers through the identification and correction of design and manufacturing issues, reducing the warranty of a door system by \$8 per vehicle
- Established a cross-functional VA/VE team that saved \$12 million on the doors-off line on one program through the elimination or communization of parts and the resulting reduction in assembly labor
- Achieved a \$4 per vehicle cost savings through the development of a door frame black-out global strategy, minimizing product/commodity options
- Reduced the cost of glass run channels by 10% through the creation of a global communization strategy via the use of common designs and tooling

Upon his retirement from GM, Jim joined DaimlerChrysler in the Finance department as a member of the Component Cost Analysis group, working with Purchasing and the supply base to determine acceptable costs for Change Notices requested by Engineering. He left Chrysler when Cerberus bought it and reduced headcount, but was invited back by the new FiatChrysler team. He helped launch the newly created System Cost & Innovation Engineering team in Chassis. Jim supported Engineering on vehicle programs developing both piece and investment Should Cost models for various commodities, as well as assisting Purchasing during the sourcing of those commodities.

- Achieved a cost avoidance of \$400,000 through the analysis of supplier price breakdowns and tool records on a single purchase order due to SCIE's upfront involvement.

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- Established Micro-standards for several commodities to be used in Phase 0 by the program team to give directional costs for the design variants.
- Created more than thirty Activity Based Costing Should Cost models for numerous commodities

In between his stints at Chrysler, Jim consulted at INCAT Engineering on a proposal for a small SUV to be built by their client, Tata Motors.

- Created a process for component cost generation, as well as developed RFQ process for the client.
- Responsible for creating engineering and quality assessment standards to be used for potential part suppliers.
- Led on-site assessment of Indian interior and exterior part suppliers to determine their engineering and quality/production capabilities to Western market standards.

Jim has a DFSS Green Belt, and has additional engineering/design-related training in DFM/DFA, Lean Manufacturing, and DFMEA/DFPEA. He also has had quality-related training in Crosby, Taguchi, Deming, DOE, and SPC.