

## *Curriculum Vitae*

### **Gregory J. Vishey**

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### **Summary:**

Mechanical Engineer with over 26 years of development and management experience across very diverse technologies. These Include: semiconductors, automotive seats, robotic welding, high-G shock levels, chemistry, electronics, computer programming and residential and commercial structures. Internationally published (Robert Bentley Publications). Holds four domestic patents plus two international patents. Frequently selected to investigate or solve complex problems while under short time constraints; in the international arena.

### **College:**

BSME, Case Institute of Technology, Case Western Reserve University, Cleveland, OH 1983  
Extensive, one year senior research project at NASA-Lewis with advisor S.S. Manson into low-cycle multiaxial fatigue failure in metals. Final semester Dean's List, Graduated with Honors.

MSA, Central Michigan University, Mt. Clemens, MI 1988, Emphasis: General Administration. Graduated with High Honors, GPA 3.8 /4.0 Masters Thesis: "Evaluation of the Non-Product Military Specifications, Standards, Directives and Instructions Affecting the Program Management of General Dynamics Land Systems" College selected 'Best Masters Project,' distributed nationally as "Thesis Under Glass" by CMU

### **Work Experience:**

#### **Defense:**

1984 GM-Detroit Diesel Allison, Indianapolis, IN, - Component and System Test Engineer on small and large truck transmissions and transmission components. Created test plans, designed test fixtures, programmed Allen Bradley Controllers, executed testing, interpreted test results and advised Purchasing and Engineering actions with suppliers.

1984 General Dynamics Land Systems Division, Centerline, MI - Product Design Liaison Engineer – Responsible for elements of the entire M1-Abrams Tank; i.e. change processing on crew seating, made by supplier Coach & Car, Electronics boxes (12), hatches, etc. Promoted to manage validation testing and change control for multiple, major subsystems: Gun and Turret Drive Systems, Gunner's Primary Sight and Crew NBC Systems. GD System Engineering Seminar (SES-III) trained 1986 for corporate executives.

1991 General Dynamics Land Systems Division/GD Services Corporation, Sterling Hts., MI, Planned and Launched an Abrams Tank manufacturing facility in Cairo, Egypt as Manager of Planning and Scheduling. Chaired the Egyptian/US Army/ US State Department Program Reviews for two quarters.

#### **Automotive:**

1994 Ford Division, Lear Corporation - Manager, Engineering Operations, Seating. General responsibilities included establishing standardized Seating Product Development process and template for timing with EDS. Tracked staffing, training and budgets. Created head-count & expenditure plans, interfaced with Ford Management, managed and secured the award of Ford's Full Service Supplier for Seating in 1995. Created training for the Division's 96 new Seating Engineers. Training modules were drafted for each seat subsystems and conducted weekly.

1996 - GM Division, Lear Corporation – Seating Development Manager GMX210/211 – (Monte Carlo/Impala). Responsible for contract scope definition, management and development of the 210/211 seating family (3 types of seat adjusters, 2 types of recliners and a family of seat frames that created a proliferation of 38 less-finish front seat assemblies and over 40 rear seat LF permutations). GM-directed material from Fisher Dynamics, Delphi and others were integrated into the vehicles with extensive changes.

12/96 UK Patent Office awarded Patent #GB2320426; Method & Apparatus for Automatic Adjustment (Detection of eye position used to determine head restraint height).

1997-2000 C5 Corvette – Seating Development Manager - Responsible for technical analysis and redesign of the Corvette (C5) seat adjusters, recliners, back frame, cushion frame, lumbar system and leather & plastic trim. This program was Lear's most visible program with bi-monthly meetings with CEO regarding development progress. Resolved problems in the advance composite back frame and resolve stiffness problems with the light weight cushion frame, adjusters and recliners. I directed supplier component changes, resolved dimensioning conflicts, developed welding plans, made material choices and managed test incident resolution. Designed the current C5/C6 aluminum cushion frame, frame extrusions, assembly process and mechanized welding maps and certification. Designed and fabricated

proprietary test fixtures for analyzing recliner fit and synchronous actuation. Designed proprietary seat back test fixtures that were used to investigate and resolve seat twist. Assisted the development and launch of the Azdel/foam-core C5/C6 back frame in 1999. At management's request, successfully intervened in the final draft of Patent #5,988,757 when two previous attempts to patent the Corvette seat structure were rejected. Note: This industry-leading seat structure is still unchanged and in use, 10 years later, in C6 Corvette production.

1998 US Patent & Trademark Office awarded Patent #5,758,924 Corvette Seat Lumbar Support System

1999 US Patent & Trademark Office awarded Patent #5,988,757 Corvette Seat Frame SRIM Design

2000-2002 - GMT250/257 – Product development and production launch of half the vehicle interior (floors, storage, headliner, netting, IP insulator)

2002 - GM “High-Mid” – Lead vehicle Interior development (program cancelled)

2002 - Manager, GM – Electrical and Small Car Interiors & GMT357 Manager (electrical, doors and flooring)

7/02 US Patent & Trademark Office awarded Patent #6,422,567 Convenience Storage System (Aztek) – (SPE Body Interior Winner '01) AKA EP1216164 B1 (Euro), DE60016265T2 (Germany), WO 01/21441A1 (World Intellectual Property).

2002 - Appointed to a Six Sigma Black Belt special assignment and rapidly promoted to Corporate Project Champion with management responsibility for projects and training at all Lear Divisions. My tenure as a statistical specialist for Lear lasted 2 years

2004 - Director, Continuous Improvement – GM Large Car (total Interior management responsible) – Responsible for Dealer and Customer verbatim analysis and predicting design solutions based on slowly accumulating historical data from the aging fleet. Responsible for developing product changes and tracking product improvements to J.D. Power scores and consumer reviews.

2004 – Development and Launch oversight, GMX222/272 (Cadillac DTS/ Lucerne) Lighting and Interior Systems.

Submitted patent application for LED lighting and command signal conversion (application is currently expired and patent not awarded).

2004 - 2006 Certified Six Sigma Black Belt & Project Champion for Lear Corporation. Generated and managed Green Belt Projects between four divisions (Chrysler, Ford, GM and International) that resulted in over \$28M recurring savings.

2006 IAC-NA, Auburn hills, MI (Lear Interiors purchased by IAC) – Sales Manager GMX222/272 Overhead systems, Garnish trim, Package Shelf and Carpet. Responsible for all change management and Customer interface with GM. Negotiated changes, established department goals, staffing, cost reduction strategies and business relocation plans.

6/06 Patent & Trademark Office awarded Patent #6,896,321 PET/Azdel Headliner Construction

**Other Miscellaneous, “Automotive Special Assignments”** – Served approximately 12 years as an “in-house product expert” in many aspects of automotive product development and testing. Often selected among a small group of engineers to review designs, processes, test failures and related crisis situations that involved, or risked product exposure/litigation at the corporate level.

- Ford seat heaters
- Rover seating design & business review, Coventry, England
- SEPI acquisition review, Turin, Italy
- Geo/CAMI Trim cost analysis and opportunities
- Corvette restraint incidents (seat interaction)
- GM-Truck Adjuster instability, validation & cost reduction
- J-Car manual adjuster test incidents
- Leather wear studies and wear reduction (Author: Corvette Newsgroup “Leather Care FAQ”)
- Corvette Seat Assembly relocation from Louisville, KY to Hamtramck, MI
- Sweden (Saab) Seating Profitability Review, Trollhattan, Sweden
- Multiple plant conversions and business relocations between the US, China and Mexico

#### **Inspection & Engineering Consulting:**

1996 Published - Home Safety (& 2 Technical Articles), Robert Bentley Press ISBN 0-8376-0321-8

1996 Home Inspection Benchmarking Results in New Inspection Process & Standards

1996 Published - Home Safety (& Technical Articles, Robert Bentley Press ISBN 0-8376-0322-61998

1998-Present – Owner and President of Vishey Home Inspection, a service of A1-HomeInspection.com ® LLC; a Michigan Limited Liability Corporation created to conduct commercial and residential inspections as part of Real Estate transactions, in response to consumer problems or needs. This LLC encompasses Engineering and Consulting activities.

1998 Joined National Association of Home Inspectors (NAHI), Member #6400

2000 Vishey Home Inspection officially goes "dot.com" as A1-HomeInspection.com

2002 US Patent & Trademark Office awarded Service Mark "A1-HomInspection.com" #2,645,779

2003 Elected to MIC-NAHI Board, Michigan Chapter, NAHI (position is current)

2004 Nationally Certified Real Estate Inspector (CRI) #200409 National exam passed & credentials awarded

2006 Material Witness, David & Joanne Romain vs. Insurance Services, Case # 05-512147-NO – Documented home conditions and potential non-conformances to Claimed remediation Standards. Collected air samples for Mold/spore Testing by EMPAT-approved lab and reported results. Deposed 8/8/06 (case active).

2006 Consultant – Thetford-Norcold Corporation, Ann Arbor – Conducted 4 Patent Searches on technologies of interest and advised on building code and performance requirements for a future consumer product (confidential). Planned and conducted meetings with corporate leadership and product development teams. Identified and recommended areas of low technical/cost barriers and those with heavy patent coverage. Recommended design concepts and evaluated regulatory and licensing barriers to target product.

2007 Vishey Home Inspection files as A1-HomeInspection.com LLC in Michigan

2009 Registered & Credentialed as NIT (National Inspection Trainer), NAHI, Minnesota – Authorized to teach Home Inspection nationally in accordance with NAHI Standards and Practices.

2009 Consultant – Lydall Corporation – Conduct market research and advise executive management on product applications in defense market sector. Choose target products, then defined customers, programs and points of contact. Organize and schedule customer meetings toward new business. Prepare and present technical presentations regarding proprietary technologies as solutions for common defense needs.

2009 Expert - Giasson vs. RCO, Case # 2:08-cv-13667 – Fulfilled preliminary findings and exploration as an Expert in Aircraft Seat Design arbitration; role terminated when the plaintiff elected to pursue jury trial. My support resumed 7/09 as Expert in support of trial (pending settlement).

2009 Expert – Lakeshore vs. David, Case # 09-03835 GC – Reviewed roofing construction workmanship versus contract and applicable requirements and prepared expert declaration (settled).

2009 Expert – Touchton vs. China Twp., US Army Corps of Engineers, & Fidelity National Property and Casualty Insurance Company (Case # unassigned) – Reviewed geographical impacts of road elevation changes and resulting flooding damage from Belle River. Assisted Draft response to multiple government departments and Insurance flood claims partially settled – (case active).

2009 Consultant - Weiner vs. Home, Door & Window Products, Inc (Case # unknown) - Retained by Charles Baker, esq., of the Trowbridge Law Firm, P.C., to independently review the Plaintiff's doors and home and offer an opinion regarding case viability and potential Defendant liability – I recommended a strategy for resolution (status pending).

2009 Expert & Consultant – Wingard vs. PuroClean (case # unknown) – Review restoration work scope and evaluate Draw requests for fire restoration. Wingard representation: Jonathon D. Douglas, Douglas Law, Union Lake, MI (case active).

2010 – Registered FHA/HUD 203(k) Inspector #A124 4/2010, Registered FHA/HUD Consultant #P1584 5/13/2010

**Personal Details:**

DOB: 02-Jun-1958, Age: 52 Years,

Sex: Male, Marital Status: Married

Languages Known: English, Spanish

Software Known: Microsoft Office Suite, Minitab Statistical

Programming Familiarity: ALGOL, Basic/Basic-A, COBOL, FORTRAN, Hex, HTML, Allen Bradley Ladder Logic

**References:** Available Upon Request

**Declaration:** I hereby declare that the above statements are true to the best of my knowledge and belief.