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BARBARA MOROSKI-BROWNE **Senior Data Analyst**

Professional Specialization

Risk analysis: real-world performance of vehicles, vehicle components, and other industrial consumer products to measure product risk in the context of similar products and operating environments. Includes database development and cross-database linkages, reliability assessment, survey design and data collection, statistical modeling and analysis, and product safety evaluations. Specialize in analysis of motor vehicle crash data (NHTSA NASS/CDS, GES, FARS, State data) and USCG Recreational Boating Accident Report data.

Statistical analysis and data interpretation: descriptive and inferential statistics, performance modeling, path analysis, and indicator/composite variable construction.

Evaluation research methods: sample surveys (cross-sectional, criterion-referenced), case study (single, multiple), performance audits (economy/efficiency and program audits).

Information management: data acquisition (relational, hierarchical or flat file structures; any operating system/medium), primary and secondary database design and documentation.

Quality assurance: objective and procedural documentation, data validation and testing, referenced results and technical reports.

Data collection: statistical sampling, sample surveys, data collection instruments and protocols.

Public sector: legislative, statutory, and regulatory research and analysis; performance evaluation.

Professional Background

Bachelor of Public Affairs (Policy Analysis and Research Methods), Wayne State University, 1980

Certified Government Financial Manager, 1995

American Statistical Association, Society of Automotive Engineers, Association of Transportation Safety Information Professionals Peer Review Team, Performance Audit Specialist - Intergovernmental Audit Forum

Advanced training in statistics, indicator development, survey research, program evaluation, investigative audits, and performance standards

Statistical packages: SPSS, SUDAAN, DBMS Copy, SRO Stats; Software applications: Access, Excel

Senior Data Analyst	Design Research Engineering, 1998 - current
Senior Partner	Bardon Kruman Associates, 1995-1998
Senior Evaluator	U.S. Congress, Government Accountability Office (GAO), 1982-1995
Research Assistant	Wayne State University, Department of Political Science, 1981

Publications

Evaluation and Refinement of the CRABI-6 Anthropomorphic Test Device Injury Criteria for Skull Fracture, Proceedings 2009 ASME International Mechanical Engineering Congress & Exposition, IMECE2009-12973 (with D Raymond, K Thibault, W Hardy, J Plunkett, and C VanEe), 2009

Enhanced Vehicle Identification in Motor Vehicle Accident Databases, SAE 2004-01-1186 (with T Angelos, R Firestone, and M Vogler), 2004

Workforce Reductions: Downsizing Strategies in Selected Organizations (GAO/GGD-95-43), March 1995

Multiple Employment and Training Programs: Information Crosswalk on 163 Employment Training Programs (GAO/HEHS-95-85S), February 1995

Multiple Employment Training Programs: Major Overhaul Needed to Reduce Costs, Streamline the Bureaucracy and Improve Results (GAO/T-HEHS-95-53), January 1995

Presentations

Enhanced Vehicle Identification in Motor Vehicle Accident Databases, Society of Automotive Engineers, 2004 World Congress, Detroit, MI, March 2004 (with M Vogler, T Angelos, and R Firestone)

Leadership and Management Study, Chartered Township of Northville, Michigan, June 1999

Community Recreation Survey, Northville Parks and Recreation, Northville, Michigan, September 1998

Secondary Data Analysis, Office of the Auditor General, State of Michigan, Lansing, MI, 1997

Performance Auditing, Governmental Accounting and Auditing Conference, Sponsored by the Michigan Association of Certified Public Accountants and Michigan Department of Treasury, Troy, MI, 1996 (with D Ingersoll)

List of pre-1995 research and presentations available upon request.