

# Michael Nranian

## Expert in Intellectual Property & Product Liability

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### Education

#### Wayne State University

MS Electrical Engineering, 1991

BS Electrical & Computer Engineering, 1993

BS Chemical Engineering, 1984

Juris Doctor, 1999

#### University of Michigan

MBA, 2002



**Qualifications:** Six Sigma Black Belt – American Society for Quality & International Quality Federation; Licensed Professional Engineer; Certified Project Management Professional; Eagle Scout; Accident Reconstruction – Northwestern University; Active Secret Security Clearance; Certified Information System Security Professional CISSP, Security+, Network+, SANS 566 Security Controls GIAC, Certified Authorization Professional - Cyber System Security Engineer, Admitted to State Bars of Michigan & Texas, U.S. Supreme Court, United States Patent and Trademark Office

### INTELLECTUAL PROPERTY SERVICES AND EXPERIENCE INCLUDE:

- Evaluation of patent infringement/non-infringement, and patent validity/invalidity, including America Invents Act, and 101, 102, 103, 112 and prior art arguments including analyses under literal infringement and the under the doctrine of equivalents. Prosecution history estoppel.
- Development of claim charts for Markman hearings, ITC & federal cases, Inter Partes reviews. Expert reports, depositions, hearing and trial testimony.
- Technology standards boards and licensing authorities, antitrust/DOJ, technology development and transfer, patents, trademarks, trade secrets, copyrights, data rights, trademark infringement/dilution, unfair competition/trade, false/deceptive advertising Lanham Act, Class Actions, etc.
- Georgia-Pacific factors analyses for determining reasonable royalty for plaintiff or defense. Willful infringement arguments.
- Development and Analysis of Markman briefs, claim charts, conducting prior art searches, and the analyses of patent file wrappers.
- Discovery and motion practice, summary judgment proceedings, evidentiary hearings, motions in limine, opposition and reply briefs.
- Patent Cooperation Treaty Applications, U.S. applications, international filings. Post-Grant Review, Inter Partes Review, Patent Trial & Appeal Board.
- Prior art/patentability research in technical literature, publications, product specifications, and dissertations to analyze validity and obviousness.
- Litigation support and technology education in patent disputes, Federal Cases, ITC cases, & re-examinations, derivation proceedings, prior user rights.
- Represent clients in all aspects of electrical, chemical, software, computers, microprocessors, & automotive components/systems for all aspects of intellectual property/litigation. Cellular, telecommunication, GPS/navigation, mobile, telematics, info/data/transmission, Human Machine Interfaces, etc.
- Deposition, hearing and trial experience in state and federal jurisdictions throughout the United States.

**Cases include:** Magna v. TRW; Bradley v. Fontaine Trailer; ATI; Remy v. WAI (ITC); Horizon v. Continental (IPR); Stratos v. Volvo; IQASR v. Wendt; Mobileye v. Picutup; Karma v. Lordstown; Speedguage v. Inthinc; Voxv v. JSI; Magna v. SMR; (MPEG); Stragent v. Volvo; Dorman v. Paccar & mul other cases

### PRODUCT LIABILITY SERVICES AND EXPERIENCE INCLUDE:

- Direct participation in more than 300 litigation cases with in-depth evaluations of multiple high-dollar claims and lawsuits. Forensic Analyses.
- Expert witness reports, inspections, accident reconstruction, photographs, occupant kinematics & injury causation, component and system analyses.
- Development of case and trial strategy, summary judgment proceedings, evidentiary hearings, motions in limine, opposition and reply briefs.
- Deposition, hearing and trial experience in state and federal jurisdictions throughout the United States as Expert Witness and Corporate Representative.
- All areas of discovery, preparing and/or obtaining sets of requests for production, interrogatories, requests for admissions. E-discovery.
- Preparation of other witnesses prior to their depositions and trial testimonies, including all potential cross-examination questions. Forensic Analyses.
- Product Liability Law, indemnification, injury thresholds and regulatory requirements, including all FMVSS interpretation/compliance.
- Optical/vision systems, warning systems, forward collision/lane departure warning, medical devices, wheelchairs, and handicap assistance devices.
- Automotive, truck (including tractor-trailer) systems, sensing systems, including all crash recorders (Direct design experience in these modules for over 20 years). Accident reconstruction and analysis of crash pulse information. Electrical, electronic, electro-mechanical components and systems.
- Design validation plans and reports, failure modes and effects analyses, product prove-out, design verification, reliability/durability analyses/assessment.
- Analysis of component defects including seats, seatbelts, curtains, airbags, roof crush, structure, doors, all modes of sensors, crashworthiness.
- Electrical systems and architecture, fire cause and origin, lidar/radar, sensors, camera/optical/vision, warning & diagnostic system & fault code analyses.
- Insurance law, no fault insurance law, subrogation. Automotive domestic/international OEMs, customers, suppliers, manufacturing, operations.
- Field Analysis of Product Liability Issues and the Implementation of Design Changes to Reduce Exposure. Forensics. Analysis of Alternative Designs.
- Regulatory pre-emption arguments, express, implied, or fact-specific analyses. Workplace safety/standards/policies, Fall Protection, - OSHA, ANSI, etc.
- Depositions, Expert Testimony, Trial Testimony. *FCA v. Lear, Delphi - Please see Judicial Experience/Testimony History on website (too much to list here).*

### Summary of Professional Experience

*Principal - AUTOMOTIVE DESIGN ANALYSIS, South Lyon, MI* - Technical consulting practice conducting objective, expert analysis, research, and investigation of all aspects of Intellectual Property; Patents, Products and Technologies; and Product Liability, defect investigation, Regulatory compliance. Forensic Analyses.

*TARDEC/TACOM - U.S. Army, Warren, MI* - Cyber Security- Computer Engineer Direct. IP - Invention disclosures/patents/contracts. (GTA & Alion contractual).

*Associate, Intellectual Property - Vivacqua Law, Ann Arbor, MI* - Represent clients in all intellectual property aspects of electrical, chemical, software, and automotive.

*Principal Systems Engineer - TACOM - U.S. Army, Warren, MI* - Conduct Systems Engineering/ Manage Cross-Functional Teams. DoD contracts. Consult via Raytheon

*Risk Analysis/Decision Analysis Lead - General Dynamics, Sterling Hts., MI* - Decision analysis, trade studies, systems engineering, risk analysis, & mitigation.

*Intellectual Property Litigation Associate, Dechert LLP, Austin, TX* - Represent clients in all aspects of electrical, chemical, software, and computers involving all aspects of intellectual property, including licensing, USPTO matters, joint development agreements, contracts, opinion work, infringement analyses, standards boards, copyrights, trade secrets, & antitrust issues. Discovery, motion practice, trial/ settlement procedures. Cases include Lucent/MPT v. Gateway MPEG proceedings, Apple Computer-Lucent Licensing negotiations, Tendler v. Onstar, and Acer/Gateway v. Hewlett Packard International Trade Commission litigation.

*Design Analysis Engineer/Technical Specialist/Engineering Manager, FORD, Dearborn, MI* - Technical analysis of vehicles, systems, components, and diagnostics. Act as corporate representative and expert witness; testify in trials and depositions. Conduct accident investigations and prepare expert witness reports and responses to requests for discovery. Expert in FMVSS, ECE, regulatory, due-care, corporate standards, warnings, SAE and NHTSA publications, information for NHTSA inquiries, recalls, notices, vehicle diagnostic, OBDII interfaces, vehicle bus interfaces, communication protocols, human machine interface, analysis/interpretation of electrical components, system information stored in electronic crash sensors, diagnostic modules, system modules. Lead design, development, testing, and implementation of advanced-technology passive/active restraint systems. Conducted numerous (hundreds) crash, sled, and component tests. Developed design verification plans & reports, failure modes & effects analyses, product & production validation plans, and then develop the products & systems to meet these requirements. Quality control/assurance.

*Senior Project Engineer, General Motors, Troy, MI* - Design, development, testing, and release of electrical system, software/algorithm, sensing, and airbag and airbag suppression systems for all GM truck lines. FMVSS, ECE, corporate specifications and design standards, FMEA, DVPR, control plans, and Due-Care requirements.

*Senior Project Engineer, AlliedSignal, Sterling Hts., MI* - Managed European, Pacific Rim, & domestic programs. Design and development of electrical systems & components, airbag modules, sensors, and airbag systems. Developed statements of work and comprehensive system design/test requirements, contracts/subcontracts.