MATTHEW N. HOVEY

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PROFESSIONAL PROFILE

Matthew (Matt) Hovey is currently Manager of Emerging Tech Discovery at General Motors, leading the Emerging Tech Discovery team and the IT Emerging Tech Laboratory. Previously, he has led technology teams in both Engineering and Information Technology domains, including OnStar's Advance System Architecture team and GM's Mobile Computing group. Matt has authored several Records Of Invention and patent applications, including OnStar's next-generation over-the-air telematics protocol (US Patent #7881251). In his role of discovering new technologies and IT solutions for one of the largest corporations in the world, Matt is actively engaged in shaping the future of enterprise computing.

PROFESSIONAL EXPERIENCE

General Motors, Detroit, MI**:** June 2006 to present

- Manager, Emerging Tech Discovery: Working closely with leading universities, startup incubators, and venture capitalist firms, identify, test, and track innovative technology that leads to competitive advantage. Manage a state-of-the-art IT Lab, providing a host environment for technical evaluations, prototypes and proofs of concept. Key achievements:
  - Developed "Discovery Day" concept: cross between "Shark Tank" and trade show to expose GM to technology advances from the academic and startup spaces; event held 4x each year around the U.S.
  - Managing IT lab with 1800 virtual servers, 400 TB storage, HP C7000 blade systems, Cisco Nexus 7000 network core
  - Executed proofs of concept: Mobile Virtual Machines, Push Notifications, Indoor Positioning, Custom Outlook Plugins
  - Charter member of IT Invention Review Board
  - Producer, director and host of the GM IT Emerging Tech Podcast: monthly audio and video programs presenting tech news, events and opinion in a casual setting, meant to entertain as well as inform

- Sr. Innovation Architect, Enterprise Innovation: Lead architect for Innovation development team, specializing in mobile and telematics technology. Key achievements:
  - Technical lead for in-vehicle, hands-free, eyes-free, Bluetooth-connected smartphone voice applications
  - Developed novel audio processing and phonetic voice recognition algorithms for improvements in voice command recognition in noisy environments
  - Developed Bluetooth virtual softphone application for desktop use of Bluetooth connected smartphones
  - Keynote Speaker at MobiDevDay 2012, "BYOD and Mobile Development for Enterprise"
  - Session Speaker at WIPJam 2012, "Engaging with Enterprise Mobile"
  - Panelist at MobileMonday Detroit, "BYOD Demystified"
  - 3 Inventions filed for US Patent protection

- Program Manager, Mobile Computing: Manager, chief architect and strategist for global initiatives to enable the mobile enterprise. Managed multi-million dollar portfolio, leading internal and vendor teams, to deploy mobile collaboration and business applications to wide range of smartphone platforms. Key achievements:
  - Deployed "Bring Your Own Device" (BYOD) for iPhone, Android Blackberry, WinMo, Symbian: corporate and guest Wi-Fi; Lotus Traveler and iNotes Ultralite for mobile email, calendar and contacts (CTO Award); PeopleFinder, 2D barcode and help desk mobile apps, mobile Intranet
  - Defined and operationalized a Mobile Center of Excellence (COE) for driving quality and ROI in mobile app development across the corporation
  - Keynote Speaker at MobileMonday Detroit, October 2011, "Consumerization of the Enterprise"
  - Founder and Chair of the GM Mobile Technology Forum

- ❖ Manager, Regional Enterprise Architecture: Team leader of global Sr. Architects aligned with each corporate region. Responsible for scaling and integrating global automotive IT systems for emerging market business ventures and manufacturing facilities. Key achievements:
  - IT strategy for the introduction of a major automotive brand (Chevrolet) to the European market
  - Interface landscape for Latin America region, identifying redundant interfaces for removal
  - North America integrated program portfolio to define impact of global systems deployed in-region

- ❖ Sr. Architect, Global Telematics: Special focus on global telematics offerings (OnStar, ChevyStar, NATE Drive, HoldenAssist, Yulon) and definition of strategic, next generation telematics-enabled "connected vehicle" information systems. Key achievements:
  - Architecture leveraging OnStar vehicle communications gateway for GM "connected vehicle"
  - Strategy and planning stage work for OnStar expansion into China, Europe, and small markets

OnStar, Troy, MI: December 2000 to June 2006

- ❖ Engineering Group Manager, Advance System Architecture: Led team of 6 Sr. System Architects, representing the domains of information, data infrastructure, wireless network, security, telephony, embedded and distributed application architecture to architect, assess and refine life-critical system infrastructure and systems for achieving high availability and reliability in the face of unpredictable volume and scalability. Key achievements:
  - Mobile SOA technology stack, utilization patterns and messaging guidelines, saving $120M in hardware development and $3M annually in operational wireless network costs
  - Defined technical vision, direction, and end-to-end architecture solutions for strategic Flexible Compute Platform and Connected Vehicle initiatives
  - Inventions:
    - US Patent #7881251: Lightweight protocol for use in a TCP/IP communications network (OnStar's new over-the-air communication protocol)
    - US Patent Application #20070121641: Method and system for network services with a mobile vehicle
    - US Patent Application #20080147692: Method for manipulating the contents of an XML-based message

- ❖ Enterprise Architect: Authored Enterprise-Wide Technical Architecture (EWTA) and enterprise system landscapes. Responsible for assessment and approval of all OnStar IT System Architecture. Organized and Chaired weekly Architecture Review Committee. Received CIO Award for achieving significant cost savings.

- ❖ Architecture Practice Lead: Authored and implemented Architecture Engagement Model: the roles, responsibilities and activities of project architects, including the introduction of new core processes of Peer Review, SWOT Analysis and FMEA (Failure Mode and Effects Analysis).

- ❖ Integration Architect: Defined architecture, patterns and standards for B2B data exchange, Web Services, SOA and EAI implementation. Evaluated and prototyped new integration products and technologies: ESB, Web Services, ebXML, Java telematics provisioning frameworks, OSGi

Kmart Corporation, Troy, MI**:** May 1998 to December 2000

- ❖ Lead Systems Architect: Defined and published Enterprise Architecture Strategy; mentored staff in System Design Patterns, System Modeling with UML, and Object-Oriented methodology; defined standards and processes for Software Reuse Strategy, led development of several key application infrastructure components using Java and CORBA.

Trillium Teamologies, Inc., Royal Oak, MI: August 1997 to May 1998

- ❖ Internet Technologies Consultant, Kmart Intranet: Developed corporate intranet strategy and pilot implementation, mentored on-site staff for ongoing support and evolution; defined standard platforms and tools for design and development of intranet applications.

Cambridge Technology Partners, Inc., Lansing, MI: January 1994 to August 1997

- Technical Team Leader, Chrysler Global Claims System: Led team of 20 developers in the design and development of a global warranty claims processing system using UML, C++, Java and CORBA.

- Technical Team Leader, Michigan DOT Transportation Management System: Led team of 50 developers for design and implementation of six decision support systems using PowerBuilder, C++, GIS and Oracle. Performed estimations and managed architecture, code reviews and standards.

- Senior Developer, Kmart Merchandise Allocation System: Led development staff for the Plan, Define, and Design phases of a new system for merchandise supply chain management.

- System Analyst/Developer, Michigan DOT Financial Obligation System: Designed and implemented new functionality in second and final phase of system to manage accounts receivable and payable between local, State, and Federal transportation authorities.

EDUCATION / AFFILIATIONS

Bachelor of Science - Computer Science - Michigan State University

- Capstone coursework in Artificial Intelligence, Cognate in Psychology
- Senior Project: "Local Positioning System with Natural Language Interface" featured in MSU Engineering Open House

IEEE & IEEE Computer Society, Full Member
Association of Software Professionals, Member