

## P R O F I L E



### **DAVID M. HALLMAN, P.E.**

**Materials/Mechanical Engineer**

**daveh@CraneEngineering.com**



David Hallman brings to Crane Engineering a unique 20-year background encompassing both professional engineering expertise and hands-on mechanical experience.

#### **ROLE AND RESPONSIBILITIES**

Dave provides forensic engineering services and litigation support for the firm's industrial, legal and insurance clientele. He investigates and analyzes a wide range of materials/metallurgical and mechanical system issues, failures and accidents. These investigations also include automotive and propulsion systems. Respected for his excellent attention to detail and proactive approach, Dave identifies root causes of industrial problems and, where needed, recommends corrective action. His work often involves selecting, testing and characterizing materials, metals and metallurgy.

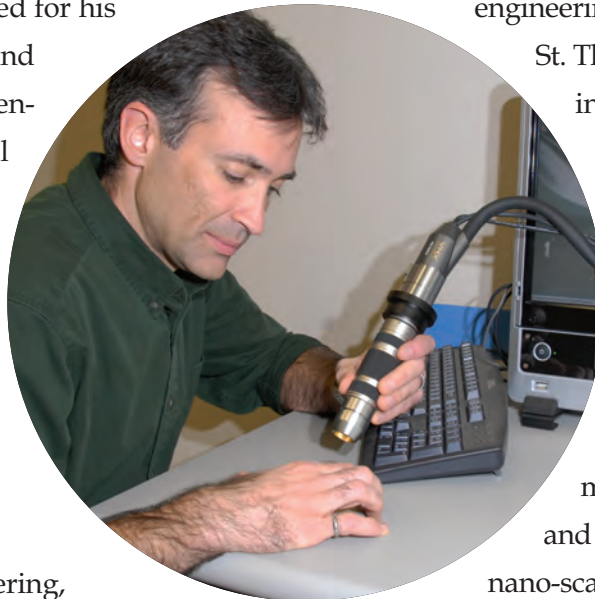
#### **EXPERIENCE**

Before joining Crane Engineering, Dave was a senior mechanical structural design engineer for a global defense, security and aerospace company. His responsibilities included structural design and analysis for a non-line-of-

sight cannon vehicle being designed for the U.S. Army. Previously, Dave served as lead mechanical engineer for a designer and manufacturer of testing and sensing equipment, focusing on tire and wheel test systems and kinematic and compliance test systems. He also worked in polymer research and development for an international technology company. Dave spent the first decade of his career as an automotive technician, performing all types of repair from routine maintenance and diagnostics to complete overhaul of transmissions, engines, differential and transaxles.

#### **EDUCATION AND INVOLVEMENT**

Dave holds a bachelor of science in mechanical engineering from the University of St. Thomas and a master of science in materials science and engineering from the University of Minnesota. He is a registered engineer and also has completed additional courses in manufacturing, materials, ISO 9000 standards and more. Dave is a member of SAE International and has co-authored papers on nano-scale plasticity response and indentation size effect. He also has co-submitted a patent application for an improved roadway simulator using a novel method for measuring passenger tire rolling resistance.



**CRANE ENGINEERING**

2355 Polaris Lane North, Plymouth, MN 55447-4777

763-557-9090 800-538-2797 Fax: 763-557-0710

[www.CraneEngineering.com](http://www.CraneEngineering.com)