

Noel Frederick, P.E.

TITLE

Mechanical Engineer

TASKS

Machinery dynamics

Vibration based diagnostics, operating defections shape analysis and advanced vibration signature analysis

Structural Dynamics

Modal analysis and structural design modifications to limit the vibration response of structures

Vibration based condition monitoring systems

Automated vibration condition monitoring systems integration providing trending and condition alarms

Environmental noise measurements and computer modeling

3D Computer models for predicting environmental noise from industrial sites

Industrial noise control

Environmental noise impact studies and acoustic mitigation design

PREVIOUS EXPERIENCE

AVS Engineering, LLC, Owner, Noise and Vibration Consultant – April 2010 to Present

Sparling, Inc., Noise Control Engineer, March 2006 – December 2010,

ESI North America, Engineering Services, June 2005 – June 2006

AVS Engineering, Owner, January 1998 – June 2006

Hughes Aircraft, Applications Engineering, January 1994 – January 1998

PROFILE

Mr. Frederick has 20 years of experience in noise and vibration engineering with a broad background that includes machinery dynamics, industrial, and environmental acoustics. Mr. Frederick has provided acoustical and vibration consulting services for a variety of applications with a focus in measurement, analysis, and computer modeling.

