

Seth William Gregg

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Recent Experience

- Vibration mentoring - Yates Construction/Nissan, Canton, MS
- Vibration condition monitoring and troubleshooting - Roche Pharmaceutical, Boulder, CO
- Finite Element modeling and redesign - Spendrup Fan, Grand Junction, CO
- Vibration condition monitoring – Denver News, Denver, CO
- RCM implementation and maintenance optimization – Frontier Refining, Cheyenne, WY
- Modal and operating deflection shape analysis – Alza Pharmaceutical, Vacaville, CA
- Mechanical design and testing – Air Force Research Laboratory, Dayton, OH

Education

B.S. Mechanical Engineering, Mechanics and Materials Concentration
Colorado State University, Fort Collins, Colorado

May 2003
GPA: 3.3 / 4.0

Work Experience

Pioneer Engineering Company, Mechanical Engineer (06/05 – Present)

Utilize single and multiple channel analysis techniques to solve vibration related problems on rotating equipment ■ Implement RCM and root cause for maintenance optimization ■ Mentor vibration analysts and plant personnel in vibration condition monitoring techniques ■ Analyze stress and predict modal characteristics of structures and mechanisms using Finite Element Analysis

Cornell High Energy Synchrotron Source, Operator and Engineer (05/04 – 05/05)

Designed a stepper motor driven optic bender to improve x-ray beam focusing ■ Improving and implementing a network-based system for ultra high vacuum regulation ■ Designing and fabricating components used in synchrotron x-ray experiments ■ Utilizing laboratory test equipment to solve computer, electrical and mechanical problems during synchrotron running periods

Advanced Design Consulting, Production Engineer (10/03 – 04/04)

Managed assembly and testing for a manufacturing and design firm specializing in precision positioning and ultra-high vacuum systems ■ Cooperated with design and manufacturing personnel to streamline production ■ Reduced assembly delays by developing efficient inventory management procedures

Seagate, Special Projects Intern (05/02- 08/02)

Developed an innovative process to produce clear hard drive covers for flow visualization testing ■ Utilized a high-speed camera and tracking software to characterize particle flow through internal hard drive geometry ■ Presented results and highlighted ineffective flow areas for senior engineers

Los Alamos National Laboratory, Dynamics Summer School Intern (06/01- 08/01)

Performed experiments in structural health monitoring and modal analysis ■ Participated in daily discussions on structural dynamics, modal analysis and signal processing ■ Collaborated with two colleagues on paper “Modal Analysis and Damage Detection in a Three-Story Steel Structure”

Technical Activities

Developed testing programs using Matlab, LabView and C for Cornell University instrumentation course, Fall 2004 ■ Guest lecturer for introductory material science course at Colorado State University, Spring 2003 ■ Presented at American Society of Mechanical Engineers Regional Student Conference, Spring 2002 ■ Presented at the International Modal Analysis Conference, Spring 2002 ■ Vice-Chair for student chapter of the American Society of Mechanical Engineers, 2002