

William W. Pflager
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Waynesboro, PA 17268
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EDUCATION

The University of Tennessee, Knoxville, Tennessee
Bachelor of Science in Mechanical Engineering 1984

The University of Tennessee, Knoxville, Tennessee
Master of Business Administration 1977

The University of Tennessee, Knoxville, Tennessee
Bachelor of Science, Physics 1971

MANAGEMENT EXPERIENCE

Manager of Research and Development, Landis Grinding Systems (now Cinetic Landis Grinding Corp), Waynesboro, PA 1988-Present. Responsible for:

- Product development activities
- Grinding process development lab

DESIGN EXPERIENCE

Participated in the design of all components of a precision grinding machines

- Hydrostatic spindles
- Rolling element spindles
- Precision slides actuated by screws and linear motors
- Structural design of machine components and bases

SKILLS

Vibration Analysis

- Vibration Engineer 1985-1988 Landis Grinding Systems
 - Performed Modal Analysis of Grinding Machines
 - Trouble shooting of forced vibration problems

Grinding system design and development

- Designed data base to record test lab generated information
- Designed a data collection system to monitor and characterize Grinding systems

Computer analysis

- Use Finite Element Analysis (Algor) as an integral part of the design process, linear static analysis, transient heat transfer and some non-linear analysis
- Wrote code for internal deployment of Matlab packages to:
 - perform FFT and wavelet analysis on part form errors
 - transfer data from an HP3561 on the GPIB to the IBM world
 - allow for reduction and analysis of data collected from instrumentation in the lab
- Use an array of programs commercially and internally written for spindle design
- Some experience with Fluent CFD package
- Proficient with MathCad, reasonably proficient with Visual basic
- Wrote Matlab code to automatically generate grinding cycles using Jaeger moving heat source based models

Problem analysis and resolution

- Regularly engage in trouble shooting activities employing
 - Instrumentation
 - Mathematical analysis
 - Networking

8 Patents concerning grinding machines, hydrostatic spindles and way systems

Professional Organizations

ASPE, ASME, ANSI B11.9 Standard revision Committee, ANSI B7.1 Committee, SME

University Collaborations

Intelligent Grinding Advisory System – ATP project with Delphi, TechSolve and Purdue
Error budgeting and many other machine design related projects – Dan Frey at MIT
High Speed Grinding – Cranfield University

Recent Presentations

ISAAT September 2007 – “The Production of Automotive Crankshafts using a High Material Removal Rate Grinding Process”

INTERTECH 2006 Keynote for the **Superabrasive Innovation** session.

Other Employment

Kimberly Clark, Roswell, Ga. Development Engineer 1984-1985

Landis Grinding Systems, Waynesboro, Pa. Field Service 1980-1981

A. M. Higley Construction, Cleveland, Ohio Assistant Superintendent 1978-1980

US Army 6-Feb-72 – 6-Feb-75

References available on request