

TODD L EUSTON, MCE, PE

Manager – Rail Systems

ZETA-TECH A Harsco Track Technologies Business Unit

900 Kings Highway N.

Cherry Hill NJ 08034

SUMMARY OF QUALIFICATIONS:

Managed or worked on projects for US and international railways in the areas of railway maintenance management including risk-based ultrasonic rail test scheduling, rail life forecasting and replacement planning, rail grinding, and rail wear. Developed expertise in the areas of analysis and management of system data, engineering mechanics and mathematics, civil railroad engineering, and software engineering.

PROFESSIONAL HISTORY:

03/2007 – Present **ZETA-TECH A Harsco Track Technologies Business Unit**

Manager Rail Systems

Key Responsibilities Include:

Managing multiple contracts and projects in US and internationally

Directly managing a project engineer

Performing analytical work and software development

08/2004 – 02/2007 **ZETA-TECH Associates, Inc.**

Project Manager

Key Responsibilities Included:

Managing multiple contracts and projects in US and internationally

Assignment to UK to integrate multiple rail maintenance programs into client's existing systems

Developing maintenance management software system with graphical interface, engineering

analysis, and reporting, and integrating into client's existing systems

Marketing directly to current and potential clients

Performing analytical work and software development

08/2002 – 06/2004 *Project Engineer*

Key Responsibilities Included:

Working on multiple projects in US and internationally

Performing analytical work and software development

Writing reports and proposals

01/1999-08/2002 **Graduate Research, University of Delaware, Newark, Delaware**

Research Assistant

Advised by Dr. Arnold D. Kerr, Professor of Civil Engineering

Responsibilities included:

Managing FRA contract for smoothing track transitions by use of matched stiffness rubber tie pads

Advancing research projects

Topics of research included:

Thermal lateral buckling of railroad tracks

Smoothing track transitions by use of matched stiffness rubber tie pads

Classical plate and beam theories

Non-linear elastic modeling of a continuous base under a plate

Master's Thesis:

The Singularity Method for Beam and Plate Analyses

06/1999-08/1999 **Amtrak, Philadelphia, Pennsylvania**
Engineering Intern, Track Department
Projects Included:
Performed analysis of rail wear data for heavy axle load study
Analyzed shifting embankment data for stabilization study
Field surveying work

EDUCATION:

08/2002 Master of Civil Engineering
University of Delaware, Newark, Delaware

05/2000 Bachelor of Civil Engineering, cum laude
University of Delaware, Newark, Delaware

COMPUTER EXPERIENCE:

Software: Microsoft Office, AutoCAD, Microsoft Visual Studio, Oracle, SQL Server

Programming Visual Basic 6, C++ (limited)

Languages:

PUBLICATIONS:

Zarembski, A.M., Palese, J.W., **Euston, T.L.** “Using Real Time Quality Control to Manage Rail Grinding”, Interface Journal, July 2006.

Zarembski, A.M., **Euston, T. L.**, Palese, J.W., “Use of Track Component Life Prediction Models in Infrastructure Management”, AusRail Plus 2005 Conference & Exposition, Sydney, Australia, November 22-24, 2005.

Zarembski, A.M., Palese, J.P., Euston, T.L., “Monitoring Grinding Effectiveness Using Grinding Quality Indices”, Railway Track & Structures, 2005.

Palese, J.W., Euston, T. L., Zarembski, A.M., “Use of Profile Indices for Quality Control Grinding”, AREMA 2004 Annual Conference & Exposition, Nashville, TN, September 19-22, 2004.