

# Curriculum Vitae

## Erik E. Endres

### *Contact Information:*

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### **Education**

Pennsylvania State University	August 2005-present
Ph.D. candidate, expected completion:	May 2008
Advisor: Helge Kristian Jenssen	
North Carolina State University	August 2002- July 2005
M.A. in Mathematics	1994
Johns Hopkins University	
B.S. in Mathematics	1991
Indiana University	

### **Employment**

Keane, Inc.	1994- 2001
Software Consultant	

## Support

NSF summer support 2004

## Teaching Experience

- Pennsylvania State University  
Teaching Assistant

Math 018, Elementary Linear Algebra Fall 2007

Math 026, Plane Trigonometry Spring 2007

Math 141, Calculus with Analytic Geometry II Summer 2006

- North Carolina State University  
Teaching Assistant

MA241, Calculus II Summer 2005

MA231, Calculus for Life and Management Sciences B Spring 2005

MA141, Calculus I Fall 2004

MA241, Calculus II Spring 2004

MA241, Calculus II Summer 2003

- Johns Hopkins University  
Teaching Assistant

Taught recitation classes for  
Calulus I and II Fall 1991 - Spring 1994

## Articles accepted in Refereed Proceedings

- E.E. Endres, H.K. Jenssen, On global large solutions to  
1-D gas dynamics, *Eleventh International Conference on Hyperbolic  
Problems, Theory, Numerics and Applications*, Lyon France, July 2006.

## Work in Progress

- E.E. Endres, H.K. Jenssen, M. Williams, Symmetric Euler and Navier-Stokes shocks in stationary non-barotropic flow on a bounded domain, submitted 2007.
- E.E. Endres, H.K. Jenssen, M. Williams, Symmetric Euler and Navier-Stokes shocks in stationary barotropic flow on a bounded domain.
- E.E. Endres, A particular large data solution to the 1-D compressible Euler equations and interaction Pattern for the 1-D Euler system, preprint.

## Professional Experience

*March 2001 to August 2001*

Keane, Inc.

Client: EMC2

Durham, NC

*Software Engineer*

- Facilitated as Oracle DBA, analyst and programmer in the successful porting effort of Legato's backup and recovery application NetWorker 6.0.1 on Data General's Flavor of UNIX, DG/UX.
- Responsible for Oracle databases, UNIX environment variables and NetWorker scripts, including design and testing of backup/recovery scenarios, and analysis/resolution of problems through environment and/or code changes.
- Installed software, compilers, and settings of the UNIX Kernel.
- Designed, wrote and utilised shell scripts to perform and monitor performance/stress testing of the NetWorker application.

*February 2001 to March 2001*

Keane, Inc.

Client: Lucent Technologies

Burlington, NC

*Oracle DBA, Programmer*

- Performed as consulting Oracle DBA, PL/SQL programmer and UNIX shell programmer.
- Involved in the design, writing and implementation of a variety of shell scripts and Oracle programs used to enforce business rules, ensure the integrity of the system and to feed downstream systems in a data-splitting effort for a corporate spin-off.

*March 1999 to February 2001*

Keane, Inc.

Client: Replacements, LTD.

Burlington, NC

*Oracle Programmer, Analyst*

- Participated in a successfully phased real-time data conversion from a non-normalized production Oracle database to a normalized Oracle database.
- Designed, wrote, tested and implemented Oracle programs utilised in the data conversion process, the enforcement of business rules and the elimination of data corruption.
- Provided technical solutions to accommodate business needs.
- Revamped and streamlined processes to increase performance and system efficiency.

*July 1998 to March 1999*

Keane, Inc.

Client: Lucent Technologies

Burlington, NC

*Programmer*

- Supported transactional interfaces of HR data from a PeopleSoft HRIS system (Oracle database) to an SAP payroll system and other main-frame legacy applications.
- Created new and modified existing PL/SQL procedures and triggers used in the creation of interface transactions.

*May 1998 to July 1998*

Keane, Inc.

Client: Lucent Technologies

Burlington, NC

*Programmer, Analyst*

- Developed programs used in data-splitting, data extraction, data exporting and importing from an Oracle database for HR data.
- Coded and maintained UNIX shell scripts for the data exchanged necessary in the splitting of two major telecommunication companies.

*April 1997 to May 1998*

Keane, Inc.

Client: Lucent Technologies

Burlington, NC

*Programmer, Analyst*

- Responsible for a COBEL/DB2 batch system with a CSP/CICS front end. Responsibilities included around the clock production support, data extraction for business analyses, reference table maintenance, and ensuring application integrity.
- Aided in testing efforts by creating and monitoring environments for system and inter-system testing.

*March 1996 to April 1997*

Keane, Inc.

Client: AT&T

Burlington, NC

*Programmer, Analyst*

- Participated in all activities that occurred in the COBOL/DB2 batch system and the IMS online system.
- Provided around the clock production support. Responsibilities included reference table maintenance troubleshooting and debugging code problems and making required code enhancements.

- Designed, created and tested new code.
- Supported client user community by running special one-time processes and responding to user calls concerning any online problems.

*June 1995 to March 1997*

Keane, Inc.

Client: GTE

Tampa, FL

*Team Lead, Programmer*

- Led a configuration management team. Trained and supervised team members and provided technical leadership.
- Coordinated all activities pertaining to the installation of new software for COBAL/DB2 batch system and a CSP/CICS online system.
- Responsible for keeping the regions of the system in sync with each other and maintaining the integrity of the system.