AURORA ponta

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#### EDUCATION

**Master of Arts,** December 1999

The University of Alabama, Tuscaloosa

Major: Applied Mathematics

Cum GPA: 3.400

**Master of Science** in Mechanical Engineering, June 1984

Polytechnics Institute, Bucharest, Romania

Faculty of Mechanics

Major: Hydraulic and Pneumatic Machines

Overall GPA: 8.25 CE GPA: 10.00  
 Overall GPA: 3.25 CE GPA: 4.00

Thesis: Design of Equipment for Transport and Sorting of Overburden (soil and gravel) for Rovinari Lignite Quarry

**TEACHING AND WORK EXPERIENCE**

**Full Time** **Temporary Instructor**, August 2002 - present

Department of Mathematics, University of Alabama

Classes taught: Beginning Algebra, Intermediate Algebra,

Pre-Calculus Algebra, Pre-Calculus Trigonometry,

Pre-Calculus Algebra and Trigonometry, Calculus and Its Application.

Duties: course leader, write syllabi, write departmental tests and exams,

mentor graduate teaching assistants, select textbooks.

**Part Time** **Temporary Instructor**, January 2000 – May 2002

Department of Mathematics, University of Alabama

Classes taught: Beginning Algebra, Intermediate Algebra,

Pre-Calculus Algebra, Pre-Calculus Trigonometry,

Calculus and Its Application.

Duties: write quizzes, attend meetings.

**Part Time** **Temporary Teacher**, January 2002 – May 2002

Capitol School, Tuscaloosa – Alabama

Classes taught:

* Middle School: Pre-Algebra, Algebra
* High School: Geometry, Advanced Mathematics

**Graduate Teaching Assistant,** August 1997 - December 1999 Department of Mathematics, University of Alabama

Classes taught: Beginning Algebra, Intermediate Algebra,

Pre-Calculus Algebra, Pre-Calculus Trigonometry,

Calculus and Its Application.

Duties: proctor undergraduate exams, grade departmental tests

**Institute of Research and Design for Industrial Construction**  **Equipment, Bucharest, Romania**, January 1987 – March 1993

* Design hydraulic installation for mini-excavator
* Design hydraulic installation for high towers shuttering

Work enclosed several reports in the hydraulic domain.

**Metallurgical Plant, Project and Design Department, Buzau, Romania,** December 1985 - January 1987

* Worked on projects related to hydraulic installations.
* Redesign ventilation installation in the welding building

"**23 August" Plant, Bucharest, Romania, December 1984 - December 1985**

* Design hydraulic installation for lathes and other industrial equipment

**Metallurgical Plant, Buzau, Romania**, October 1984 -December 1984

* Worked on projects related to hydraulic installations

**HONORS/ ACTIVITIES:** Henry Miller Endowment Fellowship 1999

**PUBLICATIONS:** Rayleigh-Benard-Marangoni Convection in a Liquid With a

Quadratic Density Profile – Far East Journal of Applied

Mathematics (2001)

**FOREIGN LANGUAGES:** English (fluent)

Romanian (fluent)

French (partial)