

John W. Steege

WORK ADDRESS

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HOME ADDRESS

Evanston, IL. 60201

OBJECTIVE

A position utilizing my experience in finite element methods and mechanical engineering.

EDUCATION

Northwestern University, Evanston, Illinois
M.S. Theoretical and Applied Mechanics, June 1987

Northwestern University, Evanston, Illinois
B.S. Mechanical Engineering, June 1981

EXPERIENCE

7/86 to present

Northwestern University, Chicago, Illinois

Design Engineer: Member of the Prosthetic Research Laboratory. Leader of a series of projects which use the finite element method to design prosthetic devices based upon models of human limbs. Experience:

- Linear and non-linear finite element analyses of elastomeric materials (MARC, GIFTS, SAP) on workstations (SUN), pc's (IBM), and mainframes (VAX, CDC).
- System administration of in-house SUN workstations, MAC's, and PC's including extensive knowledge of networking.
- Computer programming in FORTRAN. 'C' literate. Shell scripting.
- Preparation of several successfully funded federal grants.
- Supervision of engineering and medical student research projects.
- Publication of articles and abstracts concerning FEA in biomechanics.
- Presentation of results at national scientific meetings.
- CAD/CAM, materials testing, and transducer instrumentation.

6/81 to 7/86

Research Engineer: Member of the Rehabilitation Engineering Program involved in research and design of total joint replacements. Experience included:

- FEA and fracture mechanics studies of the acrylic cement used at the implant-bone interface.
- Extensive use of an MTS materials testing machine.
- Statistics (SPSS, BMDP).

6/80 to 6/81

Co-op Technician: Worked in a biomedical research lab investigating retinal response in the eye.

6/78 to 1/80

Gould, Inc., Rolling Meadows, Illinois

Co-op Technician: Part of a development team working to produce an optical fiber vibration sensor. Also developed prototype potting methods for a non-contacting ink jet array. Experience included:

- Use of lasers and optical instrumentation.
- Construction of electrical circuits.

ACTIVITIES

- American Society of Mechanical Engineers; Associate Member
- Illinois Professional Engineer in Training
- MENSA