

Elaine Schomburg

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Career Objective

A position in the medical field that allows me to use my skills in mechanical engineering to the fullest

Education

University of Houston Honors College
128 credit hours completed
Pursuing Bachelors in Mechanical Engineering, expected graduation May 2001
Grade Point Average 3.53 on 4.00 scale

Work Experience

University of Houston Mechanical Engineering Department January 1999 - Present

Title: Research Assistant

Job Description: I am currently working on my honors thesis entitled "Technical and Social Challenges in Medical Robotics." This project will examine the use of automation, control, and computer vision technologies to develop surgical manipulations that assist the surgeon in performing minimally invasive operations. During the past school semester I completed a bibliographic database for the project. Now, with the coming of the new school semester, my involvement with the project will be examining the geometric design of the robot arms and performing simulation tests.

University of Houston Fluid Mechanics Lab September 1997 – January 1998

Title: Laboratory Assistant

Job Description: I worked with a bioreactor development team studying the growth of live cells. My responsibilities included analysis of data brought back from the shuttle flight STS 85, experimental study of microbead trajectory, and image processing.

Volunteer Experience

Saint John's Hospital, Houston, Texas September 1993 – May 1996

- Aid to the nurses and doctors making sure that the patients were comfortable
- Receptionist in Medical Records

Saint Joseph's Hospital, Houston, Texas December 1996 – August 1997

- Helper at the hospital daycare
- Receptionist in the Neonatal Intensive Care Unit

Honors and Activities

- President (former Treasurer) of IITΣ (National Honorary Mechanical Engineering Fraternity)
- Selected as a participant in the Faculty for the Future Engineering and Science Research Experience for Undergraduates sponsored by Purdue University through a grant from the GE Fund.
- Academic Recognition, ASME Petroleum Division Scholarship, and Cullen College of Engineering Scholarship
- Dean's List in the Honors College – Fall 1998 and Spring 1999 and Fall 2000
- American Society of Mechanical Engineers member
- Alpha Epsilon Delta (Pre-Medicine Honor Society) member
- Health Occupations Students of America member

References

Available upon request