

JOSEPH E. PRATTY

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EDUCATION

Duke University, Pratt School of Engineering, Durham, NC

- B.S.E.**, Biomedical Engineering May 2002. Cumulative GPA: 3.4/4.0. Dean's List.
- Courses include: Genetic Databases, Tissue Engineering, Organic Chemistry, Genetics/Cell Biology, Microbiology, Electrobiolgy, Biofluid Mechanics, Introduction to Biomaterials.
- Financing ~10% of education through student loans, federal work study employment.

Thomas Jefferson High School for Science and Technology, Alexandria, VA (September 1994-June 1998).

- Senior technology research project in the Computer Aided Design Laboratory.
- Score of 800 math/710 verbal on the SAT.

HEALTH/SCIENCE EXPERIENCE

Duke University Medical Center, Intern, Health Careers Internship Program.

- January-May 2001: 7 hours/week. Shadowed a Duke University Orthopaedic Surgeon during clinic and surgery.
- January-May 2000: 3 hours/week. Patient Advocate in Pediatric Inpatient wing.

National Institutes of Health, Lister Hill National Center for Biomedical Communications, Communications Engineering Branch (May 1999-August 1999). *Engineering Aide.* 40 hours/week.

- Tested and reviewed beta version of the Medical Articles Records System (MARS II).
- Designed and wrote multiple chapters of the system's user manual.
- Recipient of citation for outstanding contributions to the MARS II project.

TEACHING/MENTORING EXPERIENCE

Society of Engineers Buddy Program. *Mentor* (August 2001-Present).

- Upperclass mentor to two freshman woman engineers in program designed to increase retention rate of female engineers

GE Fund Engineering Teaching Fellowship. *Teacher* (September 2001-Present). 10 hours/week.

- Developed interactive projects and lessons to increase math skills and enthusiasm of underprivileged students for higher-level math.
- Presented hands-on projects to Durham middle school students through team-teaching with classroom teachers.

Rose Hill Elementary School. *Classroom Assistant* (May-June 2001) 15-20 hours/week.

- Volunteered in special education classroom with children from 3 to 6 years of age.

Duke University Physics Department. *Physics Tutor*, (March-May 2001). 1-2 hours/week.

- Provided individual tutoring in Introductory Technical Physics to a freshman engineering student.

Duke University Office of Student Development. *Resident Advisor* (August 2000-May 2001).

- Developed and refined crisis management and counseling skills.
- Designed and executed cultural, educational and social programs.

LEADERSHIP/COMMUNITY ACTIVITIES

***Director*, Career and Personal Development Cabinet, Chi Omega Fraternity (August 2000-May 2001).**

- Provided weekly career tips, email update of Career Center activities and organized workshops.
- Expanded alumni relations through the increased use of alumni mailing list and planning of annual alumni reception.
- Initiated guest lecture series.

***Founder*, Game Room Task Force, Duke University (September 2000-May 2001).**

- Conceived of and developed funding proposals for initiative to provide freshmen students an alcohol free social space.

SKILLS

Sterile Techniques, PCR, Distillations, Unix, C++, HTML, AutoCAD, MatLab, Maple, Mathematica, Latex, MS Word, MS Excel