

BENJAMIN J. HERTZBERG

School Address:
404C, 301 Tenth Street, N.W.
Atlanta, GA 30318
917-498-1776
email: bjh39@cornell.edu

Home Address:
180 Riverside Drive, #11F
New York, NY 10024
212-873-7816

EDUCATION

2003-2007

College of Engineering, Cornell University, Ithaca, NY

GPA: 3.3/4.0, GRE: V750 (99%), Q800 (94%), A6.0 (96%)

Specialization in Materials Science and Engineering

Relevant Courses: Kinetics, Diffusion & Phase Transformations, Electrical, Dielectric and Magnetic Properties of Materials, Physical Metallurgy and Applications, Nanobiotechnology, Mechanical Properties of Materials, Thermodynamics, Computer Instrumentation and Design;

1999-2003

Hunter College High School, New York, NY

Honors curriculum at magnet school for gifted students

WORK EXPERIENCE

Summer 2005-06

Intern, Mechanical Engineering Department, Columbia University, New York, NY

- Researched Ohmic growth of carbon nanotubes
- Completed many carbon nanotube growths using Ohmic growth apparatus
- Analyzed benefits of various alternative growth catalysts and substrates; contributor to paper on Ohmic growth of carbon nanotubes to be published in near future
- Constructed apparatus for low-temperature tests of nanotube electronic properties

Fall 2005-2006

Intern, Center for Materials Research, Cornell University, Ithaca, NY

- Performed CVD growth of carbon nanotubes on catalyst composition spreads on various substrates
- Studied results of different catalyst nanoparticles mixtures.

Summer 2004

Intern, Center for Ceramics Research, Rutgers University, New Brunswick, NJ

- Studied Zinc Oxide integrated circuit fabrication technology
- Wrote and presented paper analyzing current state of Zinc Oxide processor technology
- Reviewed benefits of various alternative substrates and fabrication techniques unused at research site

EXTRACURRICULAR ACTIVITIES

2005-Present

Member of Engineers for a Sustainable World

2004-Present

Member of Cornell Japanese Animation Society

2000-2003

Volunteer, Kateri Residence, New York, N.Y.
Assisted in care of nursing home residents.

AWARDS

2001

Outstanding Youth Volunteer Achievement Award, United Hospital Fund

COMPUTER SKILLS

Engineering and laboratory applications of MATLAB, Java, C++, and LabVIEW.