

RAYMOND E. BRENNAN IV

CAMPUS

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OBJECTIVE: To obtain a position with opportunities for personal achievement and career.

EDUCATION: Rutgers University, New Brunswick, NJ
M.S., **Ceramic and Materials Engineering**, May 2003, G.P.A. 3.8
“Development of Piezoelectric Single Crystals by Fused Deposition of Ceramics”

Rutgers University, New Brunswick, NJ
B.S. **Ceramic and Materials Engineering** B.A. **Psychology**, May 2000 G.P.A. 3.1

EXPERIENCE: **Center for Ceramic Research, Rutgers University, Piscataway, NJ**
Graduate Student, July 2000 to present

- Involved in research project to grow PMN-PT single crystals
- Gained experience using Solid Freeform Fabrication techniques

Institute of Electrical and Electronics Engineers, Piscataway, NJ
IEEE-UFFC Senior Student Representative, March 2001-October 2002

- Promoted new student membership into society (20% increase over term)
- Developed and distributed promotional posters, postcards, fliers
- Presented bi-annual reports at Administrative Committee meetings (Seattle; Atlanta; Chicago; Munich, Germany)

Graduate Housing Office, Rutgers University, Piscataway, NJ
Resident Graduate Hall Director, May 2001-May 2002

- Directed and managed residence life of 96 graduate students
- Planned and organized resident activities, conducted sanitary inspections, and aided in mediation of resident problems

Center for Ceramic Research, Rutgers University, Piscataway, NJ
Teaching Assistant, Engineering Laboratory III, September 2001-December 2001

- Taught and aided junior level undergraduate students in setting up experiments and gathering and analyzing collected data
- Evaluated and assigned grades for laboratory write-ups to encourage improvement of technical writing

Center for Ceramic Research, Rutgers University, Piscataway, NJ
Undergraduate Technician, January 1998 to June 2000

- Aided graduate students and professors with various research projects
- Gained experience working with Fused Deposition of Ceramics equipment

Skyweb Inc., Old Bridge, NJ
Web Page Designer, February 1995 to May 1995

- Designed web pages for various businesses and organizations
- Provided technical support for Internet customers

Ranney School, Tinton Falls, NJ
Senior Counselor, June 1994 to August 1997

- Supervised, coordinated, and trained junior counselors
- Organized and involved campers in educational and recreational activities

Raymond E. Brennan IV
page 2

PUBLICATIONS: R.E. Brennan; “Growth of PMN-PT Single Crystals by Fused Deposition of Ceramics and Templated Grain Growth”; *Thesis Proposal*; Rutgers University; April 2002.
R.E. Brennan, M. Allahverdi, M.E. Ebrahimi, and A. Safari; “Growth of Net-Shape PMN-PT Single Crystal Components by Fused Deposition of Ceramics (FDC) and Templated Grain Growth (TGG) Techniques”; *Proceedings of IFFF-ISAF*; Nara, Japan; May 2002.
M. Allahverdi, A. Hall, R. Brennan, M.E. Ebrahimi, N. Marandian Hagh, and A. Safari; “An Overview of Rapidly Prototyped Piezoelectric Actuators and Grain-Oriented Ceramics”; *Journal of Electroceramics*; vol. 8; pp. 129-137; August 2002.
R.E. Brennan, S. Turcu, A. Hall, N.M. Hagh, and A. Safari; “Layered Manufacturing for Prototyping of Novel Transducers”; *Ferroelectrics*, vol. 293, p. 3-17, 2003.

PRESENTATIONS: “Growth of PMN-PT Single Crystal Components by Layered Manufacturing and Templated Grain Growth Techniques”; *American Ceramic Society Presentation* (St. Louis, MO; April 20th, 2002)
“PMN-PT Single Crystal Research”; *U.S. Navy Workshop on Acoustic Transduction Materials and Devices Presentation* (Baltimore, MD; May 14th, 2002)
“Growth of PMN-PT Single Crystal Components by Fused Deposition of Ceramics and Templated Grain Growth Techniques”; *IFFF Conference Presentation* (Nara, Japan; May 31st, 2002)
“Growth of PMN-PT Textured Components by Layered Manufacturing and Templated Grain Growth Techniques”; *American Ceramics Society Presentation* (Nashville, Tennessee; April 28th, 2003)
Growth of PMN-PT Textured Components by Layered Manufacturing and Templated Grain Growth Techniques; *U.S. Navy Workshop on Acoustic Transduction Materials and Devices Presentation* (University Park, Pennsylvania; May 7th, 2003)

ACTIVITIES: **Member**, Association of Ceramic Engineers, September 1997 - present
Member, IEEE-UFFC, September 2001 – present
Member, Intramural Athletics Board of Directors, September 2003 - present
Tour Guide, Department of Ceramic and Materials Engineering, September 2001-present
Captain, Intramural Flag Football Team, October 1998 – present
Captain, Intramural Indoor and Outdoor Soccer Teams, September 2001-present
Captain, Intramural Softball, April 2001-present

COMPUTER SKILLS: Working knowledge of Microsoft Office, Internet, HTML, Windows, Adobe Photoshop, Quick Slice