

Samuel T. Cosby

Address: 2002 S. Mason Rd Apt 615, Katy, TX 77450 • Phone: (832) 790-0951 • Email: samueltc@byu.net

Work Experience

Design Engineer

June 2007-Present *Dow Chemical Company* *Houston, TX*

- § Piloted using laser scan technology on retrofit capital projects to enable remote piping design, which expands the labor resource pool, and reduces labor costs by up to 40%
- § Led or co-led piping design on various capital projects ranging in size from \$25MM-\$75MM
- § Trained new hires from another culture in creation and optimization of piping specifications
- § Developed flow correlations for an engineering design aid to ensure proper valve selection

Crude Oil Scheduler - Intern

Summer 2006 *ExxonMobil Oil Corporation* *Fairfax, VA*

- § Saved \$500,000 by optimizing delivery schedules of crude oil from tankers and pipelines to the Beaumont refinery

Research Assistant

2005-2006 *BYU Chemical Engineering Department* *Provo, UT*

- § Developed novel processes that prepare silicon oxide for the growth of copper nanowires
- § Co-authored proceedings paper entitled "Substrate Preparation for Nanowire Fabrication by Selective Metalization of Patterned Silane Monolayers" for the Electrochemical Society

Instructor

2004-2005 *Missionary Training Center* *Provo, UT*

- § Trained classes of 8-12 volunteer representatives in organizational skills, leadership, Spanish language, and Latin American culture

Education

Bachelor of Science in Chemical Engineering

2001-2007 *Brigham Young University (BYU)* *Provo, UT*

- § Magna Cum Laude
- § GPA: 3.93
- § Dean's List for 5 semesters

Service and Leadership

AIChE Fundraising and Publicity Officer

2004-2007 *AIChE Student Chapter* *Provo, UT*

- § Raised over \$2000 to buy holiday gifts for needy families in collaboration with United Way

Math Tutor

2007-Present *Volunteers in Public Schools* *Houston, TX*

- § Tutored middle school students in need of supplemental math instruction

Volunteer Representative

2002-2004 *Church of Jesus Christ of Latter-Day Saints* *San Salvador, El Salvador*

- § Co-directed the service activities of about 150 representatives from 8 different countries

Skills and Activities

- § Fluent in Spanish
- § Eagle Scout
- § Hobbies include playing piano and organ, reading, running, and camping

Home Address:
248931 Avenida Veraneo
Lake Forest, CA 92630

JOE ENGINEER

GPA: 2.77

Local Address:
621 E. 420 N. Apt.#103
Provo, UT 84606

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Education

Brigham Young University 2005-Present

- Studying Chemical Engineering
- Graduate in 2011

Work Experience

- Golf Car Attendant/ Course Maintenance June 2005-August 2005
 - Drove golf carts to garage to charge
 - Worked on course, safety requirements such as hard hats
- Car Prep Enterprise Rent-A-Car July 2004-December 2004
 - Cleaned cars and drove them to pick people up

Service

- Voluntary Representative, The Church of Jesus Christ of Latter-day Saints,
Frankfurt, Germany 2005-2007
 - Conducted presentations for groups and individuals
 - Supervised 8 other individuals
 - Planned and facilitated weekly meetings
 - Obtained legal documents allowing residency in the country for others

Awards

- Earned Eagle Scout Award at age of 14

Hobbies

- Soccer, Ultimate Frisbee, Sports in general

Dallan R. Prince

865 N 160 W Apt. 96
Provo, UT 84604
(512) 554-1042
prince@byu.net

EDUCATION

BS IN CHEMICAL ENGINEERING – BRIGHAM YOUNG UNIVERSITY, Provo, Utah

- Graduation expected summer 2010; **GPA 3.92/4.00**
- Brigham Young Scholar, full tuition; Robert C. Byrd Scholarship
- Co-President, BYU Biomedical Engineering Club, May 2008 – present

MANOR HIGH SCHOOL, Manor, Texas

- Salutatorian, 2004; **GPA 4.00/4.00**
- National Honor Society President
- Texas All-State Symphonic Band 2003, 2004
- Texas Boy's State
- Editor-in-Chief, *The Lariat* (Student Newspaper)

WORK EXPERIENCE

RESEARCH ASSISTANT – ADVANCED COMBUSTION ENGINEERING RESEARCH CENTER *Brigham Young University, Department of Chemical Engineering, March 2008 – present*

- Wrote standard operating manual for pressurized (up to 15 atm) flat flame burner.
- Developed and recommended improvements in design and procedure.
- Cut routine repairs and associated costs by approximately 50% and \$100/mo.
- Explored flow rates and reactor configurations to meet standards for data analysis.
- Built specialized thermocouples to be placed in 1400°C flame.
- Designed, built and installed internal ignition device for use at high pressure.

BAKERY STAFF – GREAT HARVEST BREAD CO., Austin, Texas, summer 2007

- Solved problem with dough-processing machine and trained staff to prevent it.

COMPUTER TECHNICIAN – MANOR I.S.D., Manor, Texas, summers 2002, 2003

- Installed, networked and maintained computers on 5 campuses.

OTHER

High-Risk Youth Mentor, IMPACT Program, BYU, Payson, UT, Sep 2007 – May 2008 **Missionary, Church of Jesus Christ of Latter-day Saints, Oregon, June 2005 – June 2007**

- Planned and led weekly training meetings of 10-12 other missionaries.
- Started and taught ESL classes in several cities.
- Organized first-ever regional social to unify Spanish-speaking church members.

Spanish, fluent in reading, writing and speaking.

Eagle Scout, *Boy Scouts of America*

Interests: music composition, piano, trumpet, wood-working, amateur inventing, lawn care, mountain biking, basketball, soccer, volleyball, ping-pong and ultimate frisbee.

Gregory Davis Gibby

533 E 400 S Provo, UT 84606
(801) 375-2348
gibbyg@et.byu.edu

- Objective** To obtain employment for the summer of 2000
- Education** **Bachelor of Science, Chemical Engineering**
December 2000, Brigham Young University
GPA 3.16 / 4.00
- Completed classes in Thermodynamics, Fluid Mechanics, Materials, Heat and Mass Transfer, Kinetics, Organic and Physical Chemistry, Statistical Quality Control, Partial Differential Equations, Finite Element Modeling
- Experience** **Teaching Assistant, Math Tutorial Lab, BYU, Provo, UT**
September 1998-Present
- * Help students with math assignments at skill levels ranging from college algebra to partial differential equations
 - * Work while going to school full time
- Missionary, Church of Jesus Christ of Latter-day Saints**
October 1995- October 1997
- * Volunteer representative of the Church in the Spanish speaking communities of Riverside and San Bernardino counties of Southern California
- Skills** **Software:** MS Office, Mathcad, Borland C++, Visual C++, Netscape Composer
Programming Languages: C, FORTRAN, HTML
Languages: English, Spanish
- Awards** Eagle Scout
National Merit Scholar
Two-time State Champion Wrestler
- Hobbies** Creative Writing, Listening to Rock and Roll, History
- References** Available on request

Thomas A. Knotts IV

380 North 1020 East #310 Provo, UT 84606 (801) 371-6710 tak@et.byu.edu

Objective To obtain an internship and gain experience while benefitting the company in the field of chemical engineering.

Education B.S. in Chemical Engineering Expected Graduation: April 2001
Emphasis: Materials and Semiconductors
BRIGHAM YOUNG UNIVERSITY Cumulative GPA: 3.86/4.0

Related Courses: Chemical Thermodynamics, Science of Engineering Materials, Semiconductor Processing (with clean room experience)

Related Skills: Proficient in the Spanish Language

Computer Programming Languages: Fortran, Java, Visual Basic

Experience **Research Assitant** **Apr 99-Present**

AICHe DIPPR PROJECT 801

- Developed and standardized predictive quantum mechanical methods for various thermodynamic properties with an average error of <5-10%
- Utilized these predictive methods to prepare thermodynamic values for 21 new compounds added to the database in 1999

Sales Representative **Nov 98-Apr 99**

LIVING SCRIPTURES INCORPORATED

- Represent the company in providing quality media to the community
- Build confidence between company and customers
- Honored for being in the top 15% of sales staff in volume sold

Volunteer **Missionary/Church Representative** **Jul 96-Aug 98**

Work THE CHURCH OF JESUS CHRIST OF LATTER-DAY SAINTS

- Taught Christian principles to families and individuals
- Conducted weekly training meetings for local leaders and other volunteers
- Increased participation in religious activity 250%

American Cancer Society Volunteer

- Team captain of Relay For Life team of 12
- Helped raise +\$45,000 total, a 400% increase over the previous year

Sub For Santa Volunteer

- Responsible to contact 20 local businesses to donate merchandise
- Helped raise \$2000

Organizations Member of the Local Chapter of AIChE

and Honors Eagle Scout Award from the BOY SCOUTS OF AMERICA

University Scholarship from BRIGHAM YOUNG UNIVERSITY

Scholarship from the DEPARTMENT OF CHEMICAL ENGINEERING

Salutatorian Graduate from NORTHRIDGE HIGH SCHOOL

President of DESERET TOWERS RESIDENCE HALLS at Brigham Young University

Dean's List of COLLEGE OF ENGINEERING at Brigham Young University

Interests Singing, Dancing, Hiking, Volunteer Work, Mountain Biking, Public Speaking, Writing, Basketball, Racquetball, Family Time

References Available upon request

NICOLE L. HATCH

EDUCATION

1995–Present Brigham Young University Provo, UT
■ Chemical Engineering, Graduating with Honors, April 2000. GPA 3.5

EXPERIENCE

1999, Summer Massachusetts Institute of Technology Cambridge, MA
Research Assitant, Bitoechnology Process Engineering Center
■ Served as a member of the Liver Bioreactor design team
■ Characterized potential liver stem cell's, kinetics and senescence factors

1998–Present Brigham Young University Provo, UT
Cancer Research Assistant, Honors Thesis
■ Isolated, sequenced, and cloned COX-2 for NSAID activity testing.

1997, Sept. to Dec. United States Senate Washington, DC
Student Intern, Office of Senator Robert F. Bennett
■ Researched legislative issues, prepared briefs and recommended action.
■ Represented the office at meetings and briefings, reported on proceedings.
■ Responded to constituent inquires, both written and verbal.

1996–1999, Summers Dura Pharmaceuticals San Diego, CA
Engineering Intern,
■ Designed, wrote, and performed experimental protocols and process validations.
■ Member of team which optimized design and production of new inhaler.
■ Characterized and calibrated Wright Nebulizers for use in clinical trials.
■ Analyzed data from Emitted Dose and Anderson Cascade Impactor tests.

ORGANIZATIONS

1995–Present Society of Women Engineers
Regional Student Representative • Regional Conference Registration Chair

1995–Present American Institute of Chemical Engineers
Vice President • Career Fair Coordinator • United Way fundraising

1997–January to April Insight, Honors Scholarly Journal
Staff member – edited, formatted, and assisted with publishing

AWARDS AND RECOGNITIONS

Finalist for the Brigham Young University's Presidential Scholarship • Trustee Scholarship •
Who's Who Among American High School Students 1995 • AP Scholar with Distinction

12266 CRISSCROSS LANE • SAN DIEGO, CA 92129 • PHONE (619) 484-4915 • EMAIL NLH24@EMAIL.BYU.EDU
SCHOOL ADDRESS • 855 EAST 700 NORTH # 6 • PROVO, UT 84606 • PHONE (801) 378-7270

REFERENCES AVAILABLE UPON REQUEST

Richard D. Bridge

Education 1994 – 1995; 1997 – Present Brigham Young University Provo, Utah
Undergraduate – Chemical Engineering
▪ GPA 3.33/4.0

Objective Obtain an internship for the summer of 2000

Work experience Aug 30, 1999 – Present Brigham Young University Provo, Utah
Fluids teacher's assistant

Summer 1999 Apex Marketing Salinas, California
Sales Manager

- Doubled clientele of local pest control branch
- Trained, managed and motivated door to door sales representatives
- Maintained the highest sales per representative average in the company
- Sold more accounts than any other manager

Summer 1998 Apex Marketing Houston, Texas
Sales Rep.

- Produced on average \$40,000 of cold account business a month
- Assisted manager in daily processing of sells, organize service routs, etc.
- Received multiple nation wide company awards for most sells in one day
- Lead the North and South Houston branches in sells every month
- Trained other sales reps form North and South Houston

Volunteer experience May, 1995 – June, 1997 Rostov, Russia
Ministering Representative of the Church of Jesus Christ of Latter-Day Saints

- Represented the church and provided community service in Russia
- Directed an trained 60 other representatives
- Spoke daily in Russian

Summer 1994 Oakley, Utah
Donation Organizer

- Organized and oversaw the mass gathering of donated items
- Assembled and managed 20 people
- Gathered for eight days
- Provided a diesel trailer full of clothes, blankets, and appliances to be sent to the Dessert Industries

Interests and activities

I enjoy racquetball, camping, computers, learning, and being with my wife.

EDUCATION	Bachelor of Science, Brigham Young University Chemical Engineering, emphasis: Biomedical and Microelectronics Expected Graduation: June 2000, GPA: 3.37 Horace and Martha Larsen Scholarship, 4 year recipient	
EXPERIENCE	Laboratory Assistant	summers 97,99
	<i>University of Michigan, EECS Dept. Ann Arbor, MI</i> <ul style="list-style-type: none">• performed comparative study of two materials used for micro electrodes• gained experience doing independent research to contribute to the team• assisted graduate students in designing and performing experiments• developed mechanical polishing technique to improve cross-section SEM visuals of micro electrodes	
	Independent Sales Representative	summer 96
	<i>Southwestern Book Co., Evansville, IN</i> <ul style="list-style-type: none">• operated entrepreneurial business selling educational material door-to-door• earned 200 unit club award based of sales• earned Gold Award for working 75(+) hours for the 12 week period• developed communication, money-management and problem solving skills	
	Curriculum Development	spring 96
<i>Brigham Young University, Chem. Dept. Provo UT</i> <ul style="list-style-type: none">• researched and developed Inorganic Chemistry experiments to fit students' ability level and time constraints of class		
SKILLS	Pool Manager	summers 94,95
	<i>Rolling Hills Water Park, Ypsilanti, MI</i> <ul style="list-style-type: none">• trained and motivated lifeguard staff• resolved patron concerns• developed stress management skills working with emergency situations	
	Volunteer Representative	fall 1997-1999
<i>The Church of Jesus Christ of Latter-Day Saints, Johannesburg, South Africa</i> <ul style="list-style-type: none">• trained, supervised and motivated other representatives• increased personal adaptability working with people from multiple cultures• developed interpersonal and leadership skills		
SKILLS	Dektak 8000 Surface Profiler Perkin-Elmer PHI 5400 ESCA System Mechanical Polishing using Diamond Films	Reactive Sputtering Philips Teaching SEM
AFFILIATIONS	AICHE: Junior Representative Sub-for-Santa Coordinator ETJC representative SWE: High School Conference Coordinator	
REFERENCES	Available upon request	

SANJIV DEVNANI

345 E, 500N, Apartment 12, Provo, Utah 84606.

Telephone (801)-379-0987

Email sad27@email.byu.edu

OBJECTIVE

To secure a challenging position with an employer, where I can use my educational qualifications, leadership skills and work experience in a progressive work environment.

EDUCATION

- Brigham Young University
Pursuing BS Chemical engineering
- Expected graduation April 2002.

Relevant courses and projects

- Introduction to chemical engineering. Project, Design of a plant to convert meta-xylene and ortho-xylene and para-xylene
- Elementary process of Chemical principles. Project, Design of a plant to produce acetic anhydride from coal.
- Fluid mechanics (currently enrolled)
- Material science (currently enrolled)

SKILLS

- Adept at interpersonal communication
- Fluent in speaking and writing English and Hindi
- Knowledge of Mathcad, Microsoft Excel and Word
- Fortran programming

WORK EXPERIENCE

- Information Technology services (April 1999 – current). Working with the media equipment on campus, deal with trouble shooting problems and assist teachers to use the equipment.
- Custodial services (May 1998-June 1998)

PERSONAL

Member of AIChE

I enjoy travelling, backpacking and listening to music. Like to participate in Track and Field and currently playing Rugby for BYU.

- References available on request.

Marcus Boyer

1250 South 900 East
Springville, UT 84663
(801) 489-3459
meb@et.byu.edu

Objective Seeking internship for the summer of 2000

Education Brigham Young University Provo, UT
B.S. in Chemical Engineering Cumulative GPA: 3.98 / 4.0
Expected Graduation: Spring 2001

Courses to be completed by May 2000: Thermodynamic, Kinetics, Heat and Mass Transfer, Materials Science, Fluid Dynamics, Physical Chemistry, Organic Chemistry, Advanced Engineering Mathematics

Experience AICHE Design Institute for Physical Properties Data (DIPPR) May 1999-present
Research assistant collecting data and making predictions for physical properties of industrially important compounds.

B.Y.U. School of Management Computer Lab August 1998- May 1999
Computer Lab Assistant offering technical assistance to lab users

R.I.S.E. Inc. May 1996-August 1996
Care Provider assigned to accompany and assist mentally disabled children in and outside of school

Kevin Coleman Construction Summers 1992,1993,1994
Carpenter's assistant building wood-frame houses

Voluntary religious service August 1996- August 1998
Involved in teaching and humanitarian service in the country of Hungary

**Awards/
Achievements** Howard W. Hunter Presidential Scholar
Deseret News Science Sterling Scholar
Department Outstanding Freshman, Sophomore
Eagle Scout; High School Valedictorian

Skills Proficient in Hungarian speech, reading, writing
Acquainted with Spreadsheets, MathCad, Word Processing, Database

Interests Accomplished vocal soloist, Volunteer peer tutor
Enjoy tennis, piano, music, drama

References Available upon request

Nancy Ann Vincent

1505 N. Canyon Rd. #49 Provo, Ut 84604
(801)370-2378

nav@email.byu.edu

Objective	Obtain a full time position in Chemical Engineering after graduation
Education	Brigham Young University B.S. in Chemical Engineering Expected graduation April 2000 GPA: 3.83
Honors	<ul style="list-style-type: none">•Received a University Scholarship to Brigham Young University for the 1996-97, 97-98, 98-99, and 99-2000 school years.•Member of the College of Engineering Deans List for Winter 1997 and Winter 1998(min 3.9 GPA)
Work Experience	<p><u>Research Assistant, BYU 4/98-7/98 ; 9/99-present</u></p> <ul style="list-style-type: none">•Conducted experiments on human blood to test external influences on blood microemboli formation.•Performed phlebotomy on donors when needed.•Optimized techniques used to run experiments such as minimizing quenching time.•Innovated a new way to prevent blood spills from syringes and the Constant Pressure Filtration machine.•Gathered recently published research relating to the study.•Participated in research meetings and discussed new ideas relating to the platelet aggregation mechanism under study. <p><u>Process Engineering Intern, Motorola 5/99-8/99</u></p> <ul style="list-style-type: none">•Gathered process specifications from each process owner, updated and unified formats, and created a location on central server for easy access.•Ran tests to create a second-of-a-kind tool to match the original. <p>Worked with various groups to coordinate initiation of the tool.</p> <ul style="list-style-type: none">•Learned and applied etch chemistry involved with creating recipes for a new metal etch process.•Performed tests on 9600 metal etchers to research endpoint faults according to differing chemical triggers. Created recipe change to a different endpoint trigger while ensuring results mimicked previous manufacturing specs. Presented results to division staff. <p><u>Manufacturing Intern, Novacap 5/97-7/97</u></p> <ul style="list-style-type: none">•Responsible for finding a new way to strip palladium termination off of capacitors.•Tested machinery to set specifications required to optimize process.
Volunteer Work	<p><u>New Student Orientation Counselor at BYU 9/98</u></p> <ul style="list-style-type: none">•Helped incoming freshmen feel welcome and get acquainted with each other. Led them through week long orientation activities on campus.

References available upon request

Update: September 1999

BRIAN D. SPEARS

Current address:

744 E 750 N #7
Provo, UT 84606
(801) 370-2287
bds56@email.byu.edu

Permanent address:

218 Saint Paul St.
Boonsboro, MD 21713
(301) 432-2355

Education

Brigham Young University , Provo, Utah	August 1999-Present
Expected Graduation Date: December 2003	Honors Program, Scholarship recipient
GPA: 3.52	Major: Chemical Engineering
	Minors: Physics, Chemistry
The Johns Hopkins University , Baltimore, Maryland	Attended: August 1996-May 1997
GPA: 3.76 (Dean's list)	Major: Biology
	Minor: Writing

Experience

Combustion Research Assistant. *Brigham Young University.* September 2001-present.

- Wrote computer program for three-dimensional modeling of biomass pyrolysis in a reactor
- Built laminar flow reactors for testing of biomass combustion
- Wrote Standard Operating Procedures for combustion lab

Patent Proofreader. *Workman, Nydegger & Seeley Law Firm.* May 2001-September 2001.

- Edited U.S. patents for scientific, technical and grammatical accuracy

Physics Teaching Assistant. *Brigham Young University.* September 2000-May 2001.

- Taught and tutored approximately 100 physics students per week
- Graded homework and tests

Youth Counselor. *CES Youth and Family Services.* May 2000/01/02-August 2000/01/02.

- Supervised approximately 830 participants between 14-18 years of age
- Developed and taught 11 lessons per week
- Planned and administered team-building and personal-development activities

Environmental Chemistry Research Assistant. *Brigham Young University.* January 2000-June 2000.

- Tested efficiency of new air filtration equipment to result in increased particle deposition
- Specialized in analytical tests to determine particle composition on environmental air flow filters
- Assisted in building portable testing sites

Volunteer Representative. *The Church of Jesus Christ of Latter-day Saints.* Angeles City, Philippines. July 1997-July 1999.

- Supervised and trained approximately 40 other volunteers
- Functioned as office manager and personal secretary to the Mission President at mission headquarters; wrote training manual for this assignment
- Coordinated all travel and housing for 175 volunteers, wrote training manual for this assignment
- Taught public theological lessons, prepared and taught free English lessons

Activities

- Eagle Scout
- Recipient of Army ROTC Tier 1A, 4 year scholarship award--\$21,000 per year
- President of religious education program: presided over 9 teachers and 7 other staff members
- Teacher improvement coordinator for religious education: rated and taught 30 teachers
- Financial and statistical clerk for 150 member church organizational unit
- BYU Ballroom Dance: performing team and open couple competitor

Skills

- Visual Basic, C++, LABVIEW, Microsoft Office, Mathcad, Windows 95/98 & NT
- Speak and write fluent Filipino (Tagalog), speak and write conversant French and Ilokano

Dear Recruit Manager,

My name is Dong Zeng, a Ph.D student in the Dept. of Chemical Engineering, Brigham Young University. I will graduate in the June, 2005 and am looking for a combustion engineer position. I have 9 years experience of combustion engineering and research, and two year work experience as a project engineer working with power plant.

I also have a master and a bachelor degree in Thermal Engineering. Both of my Ph.D and master work focus on combustion area. With experience from combustion and pollutants emission research, I am proficient at developing and optimizing combustion system. I designed and built a combustion reactor, a flat-flame burner. I specialize in combustion kinetic, transport analysis, CFD and numerical analysis, fuel chemistry, and process control. I have published several papers as the first author and gave presentations in several symposiums. Additionally, my work experience of project engineer enhances my capability to plan and lead a research or engineering project.

Thank you for your time and consideration.

Dong Zeng

Dong Zeng

Email: dzeng@et.byu.edu

Office: (801) 422-8087 Mobile: (216) 308-4701

TARGET POSITION: COMBUSTION Engineer (Chemical, thermal engineer)

EDUCATION:

- Ph. D. Chemical Engineering, Brigham Young University, June. 2005
 - M. S. Thermal (Mechanical) Engineering, Southeast University, China. 1999
 - B. S. Thermal (Mechanical) Engineering, East China Institute of Metallurgy, China, 1996
-

TECHNIQUE SKILLS:

- Design chemical reactor, furnace, and burner; tested and optimized instrument.
 - Perform combustion engineering analysis, analysis of combustion kinetic (gas, coal, biomass, etc.), heat and mass transfer, fluid mechanic, thermodynamic, process control, numerical calculation.
 - Model transport, chemical process using CFD (Fluent, Chemkin).
 - Master material and gas analysis techniques: ICP, element analysis, surface area, FTIR, TGA, etc.
 - Autocad, C, FORTRAN programming, etc., and Mathcad, Office, image processing.
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EXPERIENCE:

Research Assistant, Brigham Young University, 2000.8-present

- Successfully finished DOE project "Fundamental Investigation of Fuel Transformations in Combustion and Gasification Technologies".
- Designed and built high-pressure flat-flame burner (Optimized Honeycomb Burner) and automatic control system, performed burner test, coal pyrolysis, char high-temperature oxidation, and char TGA oxidation experiments.
- Analyzed sample including techniques: elemental composition, ICP, BET surface area, SEM and image processing.
- Performed CFD analysis of furnace using Fluent, kinetic analysis (Chemkin), modeled coal pyrolysis, char oxidation process, optimized coal combustion model code.
- Composed technical reports, papers, gave presentations in symposium; trained undergraduates as assistants; assisted class teaching, tutored students, TA for combustion modeling course.

Project Engineer, 1999.4-2000.6

- Planned and led renovation projects of several power plants. Be familiar with power plant.
- Control project budget, execution, field service, system test, project closeout, further customer support.
- Prepared technical documents and gave presentations to customers, supported sales in business negotiation.

Research Assistant, Southeast University, 1996.9-1999.4

- Designed and built a plug flow furnace with a gas-fired burner, and an electronic heating system.
- Conducted coal, petroleum-coke combustion experiments, measured gas emission using FTIR, analyzed NO_x/N₂O emission mechanisms of combustion process in fluid bed condition (medium temperature) and plug flow Reactor condition (high temperature).
- Modeled NO_x emission process of coal combustion, worked in power plant to collect combustion samples.

Interns, 1995.11-1996.1, 1994.11-1995.1

- Operated two industrial heating furnaces. Have industrial management experience.

Undergraduate, East China Institute of Metallurgy, 1992.9-1996.7

- Joined a project of CFD simulation of coal-fired burner design, used AutoCAD to design burner parts.
- Was student body leader, actively organize activity, community service.

SELECTED PUBLICATIONS (PEER-REVIEWED):

- Zeng, D., T. H. Fletcher, "The Effect of Pressure on Coal Pyrolysis and Char Morphology," accepted by *Energy and Fuels*.
- Zeng, D., M. Clark, T. Gunderson, W. C. Hecker, and T. H. Fletcher. "Swelling Properties and Intrinsic Reactivities of Coal Chars Produced at Elevated Pressures and High Heating Rates" *Proc. Comb. Inst.* 2004, **30**, 2213-2221.
- Zeng D., S.Z. Zheng., S. Cai, "Study on N₂O Formation in Coal Fired- Fluidized Bed, *Thermal Power Generation*, 2000, **175**, 17-19.
- Zeng D., S.Z. Zheng., J.H. Chao, S. Cai, "Study on Properties of NO Reduction by Coal Reburning in EFR, *Environmental Science*, 1999, **20**, 67-70.
- Zeng, D., S.Z. Zheng, S. Cai, "Chars' Properties & Influence on Char-N N₂O Conversion", *J. of Eng. for Thermal and Power*, 1998, **13**, 429-431.
- Cao J.H., Zeng D., "The Stabilization of Magnetic FBC", *Journal of Chemical Industry and Engineering*, 1999, **50**, 786-791.

REFERENCE:

- Dr. Thomas H. Fletcher (Professor at BYU)
- Dr. William C. Hecker (Professor at BYU)
- Mr. Guobin Lan (Vice General Manager, Jinzhi Company)

Detailed contact of reference will be provided via requested.

355 CHERRY LANE PROVO, UT 84604
PHONE (801) 310-7514 • E-MAIL SAMGOODRICH@GMAIL.COM
SAMUEL SCOTT GOODRICH

OBJECTIVE

To gain some experience and save money to continue my studies at Brigham Young University.

EDUCATION

Brigham Young University	B.S. Chemical Engineering	Provo, UT
-Estimated Graduation April 2010	GPA 3.4/40	
Mountain View High School	Jun. 2004 GPA 3.45	Bend, OR

WORK EXPERIENCE

IdaTech LLC	June 2008-August 2008	Bend, OR
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Intern

- Helped develop methods for minutely measuring specific gravity differences of methanol and water
- Installed the electrical systems on a tactical fuel cell generator for the military
- Repaired and ran a stand-alone desulfurization module to provide fuel for the tactical generator

IdaTech LLC	April 2007-August 2007	Bend, OR
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Intern

- Helped develop the iGen system; a propane steam reforming, hydrogen purification and fuel cell integrated system
- Helped design the reactor and built the various test systems including safety procedures and wiring up the Field Point Modules to be able to run LabView

IdaTech LLC	Jan. 2005-March 2005	Bend, OR
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Intern

- Built reactors for a new method of steam reforming diesel saving the company tens of thousands of dollars by doing it myself in the lab and shop instead of having each of the parts laser cut

Abel Fire Equipment	Jun. 2004 –Aug. 2004	Diamond Springs, CA
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Camp Equipment Manager

- Coordinated 3 other employees in providing laundry, shower, kitchen, generator, and tent service to fire crews
- Repaired systems and helped build new portable service systems
- Drove water trucks and maintained the portable shower, laundry and kitchen units with water

L. Scott Goodrich Construction	Jun. 2003 – Sep. 2003	Bend, OR
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Construction Worker

SKILLS

Portuguese-Read, write and speak MathCAD Photoshop

AWARDS RECEIVED

- Eagle Scout Award
- National Honor Society Scholarship Jun. 2004

VOLUNTEER WORK

Ministering Representative , The Church of Jesus Christ of Latter Day Saints in São Paulo, Brazil	2 Years
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- Prepared and taught up to 12 lessons daily in Portuguese
- Conducted weekly training meetings and trained 20 other volunteers

Humanitarian Volunteer , Mozambique	2 Months
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- Conducted math and science classes in Portuguese to 80 students attending Teacher's College
- Taught English at One World University to 40 students
- Handed out thousands of information pamphlets on AIDS and HIV in local neighborhoods
- Taught Economics to six different classes of 40 students each at a local high school

EMILY S. NELSEN

Permanent Address: 1969 Meadow Dr., SLC, UT 84121
Local Address: 745 N 100 E B106, Provo, UT 84606

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Home Phone: (801)-944-5476
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EDUCATION:

Chemical Engineering, Brigham Young University, Provo, Utah 2007-2011
Class standing: Junior
GPA: 3.87/4.0 scale

WORK EXPERIENCE:

Nanotechnology Research Assistant, Brigham Young University January 2008-present

- Documenting group outreach program activities to local public schools
- Prepared SiO₂ surfaces using polymer chemistry to attach nanocircuits
- Co-authored a technical paper published by *Langmuir* (American Chemical Society publication)

Biochemical Fellowship, American Heart Association, WSA Summer 2009

- Isolated heparan sulfate precursor (a biological molecule) from E. coli bacteria
- Organized efficient schedule to produce two 20 L cultures of E. coli weekly
- Increased large scale production of HS precursor by 400% over 10 weeks

Research Collaborator, Berlin, Germany July 2008

- Traveled to Germany to collaborate with Dr. Helmut Schlaad at *Max-Planck Institute of Colloids and Interfaces*
- Advanced research of SiO₂ surface modification by learning polymer synthesis
- Executed research that led to the publication of a technical paper

Department Chair Assistant, Chemical Engineering Dept. Oct 2007-Aug 2008

- Provided inter-department information through bimonthly news letters
- Compiled and analyzed data for Dr. Richard Rowley's (Dept. Chair) research group
- Organized and assembled the department faculty and staff hall display

SERVICE:

Service Committee Chair, BYU Chapter of AIChE April 2009-present

- Organize AIChE service that helps the community, schools, and other BYU students
- Meet weekly with the AIChE presidency and council to discuss BYU AIChE events

Chemistry Tutor, Tutor Outreach to Provo Schools September 2007-April 2009

- Help improve students' grades and conceptual understanding by offering individual help on chemistry homework

Mentor, MSM Mentoring September 2007- present

- Spend one afternoon a week with sixth graders, encouraging the decision to participate in higher level education

HONORS:

Heritage Scholarship, Brigham Young University 2007-2011

- Recipient of 8 semesters of full tuition at BYU

Electronics for Imaging Scholarship, Society of Women Engineers September 2008

- Awarded \$4,000 for academic achievements and involvement in school and the community

Outstanding Freshman and Sophomore Award, ChemE Dept. April 2008, 2009

- Recognized for outstanding academic performance

Undergraduate Research Grant, Biochemistry and Chemistry Dept. Spring 2009

- Granted \$1,500 to help further undergraduate research interests in the chemistry field