

CHERYL DILKS

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FLAGSTAFF, AZ 86001

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EDUCATION

Northern Arizona University

Bachelor of Science Degree in Environmental Engineering

Minor: Chemistry

Graduation Date: May 2014

GPA: 4.0

Award: Outstanding Senior/Standard Bearer for the College of Engineering, Forestry, and Natural Science

Senior Design Project: Electricity-free, point-of-use water filter capable of uranium, arsenic, and bacteria removal through the innovative use of orange peels and zero valent iron

Arcadia University

Bachelor of Arts Degree in Sociology

Minors: International Studies and Spanish

Graduated Summa Cum Laude, May 2007

GPA: 3.99

PROFESSIONAL LICENSURE

Passed the Fundamentals of Engineering Exam in October 2013. Awaiting E.I.T. designation.

SUMMARY OF SKILLS

AutoCAD, Autodesk Civil 3D, ArcGIS, Bentley FlowMaster, Liquid and Gas Chromatography, Thermo Gravimetric Analysis

RELEVANT PROFESSIONAL EXPERIENCE

Northern Arizona University School of Earth Science and Environmental Sustainability

Engineering Research Assistant

Flagstaff, Arizona

January 2014 – Present

- Supported research needs for a PhD candidate in Engineering of Sustainable Systems.
- Performed laboratory testing and operated the Thermo Gravimetric Analysis machine to produce data and analysis for the potential of cement kiln dust to uptake carbon dioxide in industrial processes.

Global Engineering Outreach (GEO) and Engineers Without Borders (EWB)

GEO and EWB President and Navajo Reservation Project Lead

Flagstaff, Arizona

April 2012 – Present

- Founded an innovative organization, GEO, at Northern Arizona University dedicated to local and global engineering development projects while providing opportunities for students to learn about international engineering endeavors.
- Collaborated with EWB team members to design a solar-powered irrigation pumping system for a 20 acre plot, assisting in the design process for a \$431,703 Natural Resources Conservation Service Innovation Grant.
- Organized and lead meetings as President of both EWB and GEO for tribal and university officials, faculty advisors, professional advisors, and student members.

Northern Arizona University Interdisciplinary Global Project

Engineering Technician

Tibetan Refugee Settlement, Mainpat, India

December 2013

- Conducted a basic drinking water and wastewater assessment for seven refugee camps in the Mainpat Tibetan Refugee Settlement with the goal of determining the cause of the typhoid bacterial disease.
- Planned to determine best method to perform water quality tests for further research and analysis of the typhoid problem.

Northern Arizona University College of Engineering, Forestry, and Natural Science

Computer Aided Drafting Teaching Assistant and Grading Assistant

Flagstaff, Arizona

January 2012 – December 2013

- Evaluated weekly homework assignments for a thermodynamics course with 60 students.
- Assessed homework and exams for hydraulics/water resources courses with 90 students.
- Provided supplemental instruction to 50 university students enrolled in NAU's AutoCAD course.

W.L. Gore & Associates, Medical Products Division

Engineering and Analytical Chemistry R&D Intern

Flagstaff, Arizona

May 2013 – August 2013

- Investigated analytical chemistry techniques to determine the best method for the extraction of chemical additives from polymers to model potential leachable behavior.
- Identified chemical compounds with high performance liquid chromatography, gas chromatography/mass spectrometry.
- Inventoried and documented equipment with the potential to emit particulate matter, ozone depleting substances, or greenhouse gases to ensure air quality standards were met.

NASA's Climate Science and Solutions Undergraduate Research Fellowship

Research Fellow

Flagstaff, Arizona

August 2011 – December 2012

- Conducted independent student-led climate science research funded by NASA and the NSF.
- Utilized Geographic Information Systems ArcGIS software and NASA data to produce maps and analysis.

Colorado Plateau Cooperative Ecosystem Studies Unit (CPCESU)

Student Intern

Flagstaff, Arizona

March 2011 – August 2012

- Maintained Microsoft Access Database of over 1,500 research projects conducted through the CPCESU.
- Updated the CPCESU website by ensuring job and research postings were current and uploading final reports.

HONORS and AWARDS

Recipient of 22 merit based scholarships, including Arizona Water Association Scholarship, Brown and Caldwell National Engineering Scholarship, National Society of Professional Engineers' Auxiliary Legacy Scholarship and Professional Engineers in Industry Scholarship, Society of Women Engineers' Mary Gunther Memorial Scholarship, and Mensa Scholarship

INTERNATIONAL EXPERIENCE

PROFESSIONAL EXPERIENCE

Kim Hyo-jung English Academy

Anyang, South Korea

English Writing and Conversation Teacher

July 2008 – December 2009

EDUCATION

School for International Training

Uganda, Rwanda, and Tanzania

International Peace and Conflict Seminar

June 2006 – August 2006

Miguel Angel Asturias Spanish School

Quetzaltenango, Guatemala

Six Week Intensive Spanish Study

March 2010 – May 2010

FURTHER TRAVEL

Mexico (2005), El Salvador (2008), North Korea (2008), Taiwan (2008), Japan (2008), India (2010), Myanmar (2010), Thailand (2010), Cambodia (2010), Vietnam (2010), Saudi Arabia (2012-2013)

ADDITIONAL PROFESSIONAL EXPERIENCE

Northern Arizona University Recreation Services

Wall Aquatic Center Administrative Assistant

Flagstaff, Arizona

August 2010 – March 2011

- Processed daily financial deposits for the Wall Aquatic Center, often totaling more than \$1000.
- Performed semiannual staff training, supervised ten front desk clerks and evaluated their performance, conducted interviews and initiated hiring.

Complete Enrollment Agency (CEA) and Benefits Data Trust

Compliance Specialist, Team Leader, Health Insurance Agent, and Benefits Outreach Specialist

Philadelphia, PA

October 2006 – March 2008

- Ensured the compliance of CEA with the regulations of the Centers for Medicare and Medicaid by evaluating recorded conversations between health insurance agents and clients.
- Supervised team of ten health insurance agents and served as a liaison to upper level management.
- Organized and conducted trainings on Medicaid and government benefits, Medicare Advantage plans, and the use of databases.
- Informed low-income seniors of federal and state assistance programs for prescription drug benefits in a non-profit setting.