

Neekta Hamidi
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QUALIFICATION SUMMARY

Biomedical engineer interested in research, development, and policy to promote positive health outcomes for the benefit of public health. Strong academic background, exceptional communication skills, and experience in consulting, non-profit work, policy analysis, and technical writing.

EDUCATION

M.S.T.P Science and Technology Policy, *Sustainability Focus*
Arizona State University, Consortium for Science, Policy, and Outcomes

Present

M.H.S. Public Health & Environmental Health Sciences
The Johns Hopkins University, Bloomberg School of Public Health
Sustainability and Global Environmental Health Track

June 2014
Baltimore, MD

Student Assembly | Member-at-Large

Thesis: Climate Change as a Cause of Severe Weather Conditions, and its Specific Implications on Population Displacement

- Key coursework: Biostatistics, research/numerical methods, Epidemiology, Risk Analysis, Toxicology
- Policy research: Health implications of U.S. carbon tax, hydraulic fracking and human health

B.S.E Biomedical Engineering

June 2013
Tempe, AZ

Arizona State University, Barrett Honors College, *Cum Laude*

- Coursework in data analysis, research methods, FDA/governmental role in engineering
- Thesis: Visualizing the Embryo: Establishing Procedures for Digital Image Production with the Embryo Project
- Gathered/analyzed bioethics publications and standards to establish specific guidelines, resulting in 80-page protocol for image development to supplement EP Encyclopedia articles.

The Embryo Project | Writer, Visual Development Specialist

- Published images/articles based on literature reviews that analyze the “bigger picture” of cryopreservation.

PROFESSIONAL EXPERIENCE

US Globe Change Research Project, Climate Change and Human Health group | Team Member

- Managed Climate Change and Human Health Big Data Initiative: performing big data analysis to address key gaps in understanding of human health impacts of global change, predict models of health outcomes
- Worked to promote, protect Nation’s public health by leading and coordinating Federal scientific activities related to climate change and human health

Office of Science and Technology Policy | Director’s Office Intern
Executive Office of the President, White House

2014-Present
Washington, DC

- Prepared briefings, reports, congressional hearings, and policy analyses for President’s science advisor on climate change, Ebola, antibiotic resistance, STEM development, and other topics.
- Served on Task Force to strategize approaches to combat Ebola in US and abroad.
- Managed events for National Medals of Science, President’s Council of Advisors on Science and Technology.

Hayes, Inc. | Medical Analyst

2014

- Performed evidence-based safety/efficacy assessments of emerging health technologies and analysis of healthcare quality, utilization, cost, FDA regulations, and medical coverage for devices.
- Authored health technology assessments, provided in-depth research/consultation to improve health outcomes.
- Interacted with clients including government contractors and hospital administrators.

ARC Environmental | Consulting Intern

2013-2014

- Promoted environmental planning, engineering and remediation by mediating between consultants and clients. Mastered knowledge of industrial hygiene assessments, lead law education, EPA regulated air quality monitoring.

Capstone Design Project | Project Manager

2012-2013

Hand Operated Mobility Device for Traveling to Market in Kenya

- Designed and constructed sustainable, innovative, and personalized device for paraplegic polio patients in Kenya.
- Submitted 1,000 page project binder of technical writing:

- o Authored FDA premarket application (device master record, design control, manufacturing information, control activities, literature/patent review), became familiarized with FDA Quality Systems Regulations.
- o Performed device assessment: Risk/design assessment, product liability/intellectual property research, customer needs survey, product functions/device summary, and financial/cost analysis.
- Supervised project management activities: house of quality task distribution, Gantt chart recordkeeping, in-depth time documentation, design history file, and quality system/device history record.

Molecular & Nanoscale Bioengineering Lab | Research Assistant

2010-2012

Depolarizing Mitochondria to Bypass Cellular Resistance to Traditional Therapies

- Conducted research on apoptotic regulators of pancreatic, breast, and prostate cancer cells.
- Trained in western blots, MTT/Luciferase assays, JC-1 dye experiments, 3-d collagen cell culture plating.

ENERGY/SUSTAINABILITY QUALIFICATIONS

- Bloomberg key coursework: Global Health, Global Sustainability, Environmental Health, Food Systems/Production, Energy & the Environment, Environmental Policy. Additional Oxfam GROW training.

Oxfam America | CHANGE Leader, Chapter Founder/President

2009-Present

- Organized Extractive Industry/GROW campaigns (health policy focus), developing sustainable solutions to health concerns derived from socio economic issues.
- Represented Oxfam's visions, developed long-term strategic plans, communicated with a diverse national network.

TECHNICAL PROJECTS

Polymer-coated Nitinol Intracranial Stent model

2012

- Designed a prototype using an occluder implantation method for safe, affordable aneurysm treatment.
- Utilized softwares: SolidWorks (3d CAD), ANSYS (simulation), Mimics (medical image processing).

Wireless Heart Rate Monitor (Microcontroller Design)

2011

- Designed low power arrhythmia detecting microcontroller (developed C code, analyzed Fourier transforms).

Type II Renal Tubular Acidosis Case Study

2011

- Utilized MATLAB/MathCAD skills to analyze RTA diagnosis and treatment.
- Analyzed bicarbonate required for blood pH adjustment, glomerular filtration rates.

TECHNICAL SKILLS

- Working knowledge of Microsoft Office, basic computer coding, 3-D printing, welding/device construction.
- Trained in Blue Ocean Strategy (systemic approach to market analysis), 5S methodology, six sigma techniques.
- Fluent in Spanish, Urdu, and Hindi.

VOLUNTEER EXPERIENCE

Maryland Hunger Solutions | SNAP Application Consultant

Orphanage Outreach Health Corps | International Volunteer: environmental hygiene, wastewater management

Cultural Cup Food Bank & Clinic | Food Distribution/Volunteer Coordinator

Maricopa Integrated Health Services/Chandler Regional Hospital | Medical Observer, Student Volunteer

Chandler Service Club | Event Organizer, World Peace Foundation of Harvard Kennedy School Darfur Initiative

Association of Physicians of Pakistani Descent of North America | International Volunteer, Program Coordinator