

Arielle M. Benjamin

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Career Objective

To expand capabilities as a project engineer while building upon expertise in community development, technical communications and training to impact the fields of environmental conservation and climate resiliency.

Education

Villanova University, Villanova, Pennsylvania – M.S. Sustainable Engineering, 2013

Howard University, Washington, District of Columbia – B.S. Chemical Engineering, 2010

Relevant Skills

- Root Cause Analysis
- Environmental, Health & Safety Management
- Public Speaking
- Workshop & Training Development
- Community Engagement Strategies
- Cross-Functional Project Management

Experience

COMMUNITY HEALTH VOLUNTEER, ECUADOR MINISTRY OF PUBLIC HEALTH

UNITED STATES PEACE CORPS, PAJÁN, MANABÍ, ECUADOR – 2017-2019

- Managed community-led projects in a town of 6,000 people to promote personal health and well-being through education by partnering with local government leaders
- Trained 20+ health professionals and administrative staff at the hospital and clinics in the region on community engagement, public speaking & presentation skills, and digital tools to streamline healthcare data management
- Supported Peace Corps Ecuador staff through conducting training workshops, representing volunteers on an advocacy committee, and leading initiatives to improve peer-to-peer support throughout service via Inter-Cultural Diversity & Inclusion (ICD&I) methodology

SENIOR IMPROVEMENT ENGINEER, THE DOW CHEMICAL COMPANY

DEER PARK, TEXAS – 2014-2017

- Managed a portfolio of +\$5M capital and expense projects to improve environmental, health, and safety production, optimize daily production, and meet customer needs, notably:
 - Implemented new process automation and production equipment to close ~30 safety gaps validated by Layers of Protection Analysis (LOPA) and Hazardous Operating Procedure (HAZOP)
 - Executed successful, on-time and under budget 30-year anhydrous cleaning of monomer product storage tank using vacuum box and vapor-sensor technology
 - Designed system by-pass method during construction of a site-wide potable water project in order to align with Texas Commission on Environmental Quality and U.S. Environmental Protection Agency standards while causing no interruption to site production rates
 - Effectively commissioned a \$1M/1 year capital investment project to increase pipeline transfer capacity 200% for downstream business production with installation of new pumps and new process automation sequence
- Conducted annual strategic-planning with operations team to allocate funds for expense projects (≥\$100,000) to improve production of methyl-methacrylate and butyl-methacrylate

**MAINTENANCE OPERATIONS ENGINEER, THE DOW CHEMICAL COMPANY
MIDLAND, MICHIGAN – 2013-2014**

- Worked with the Six Sigma Improvement Team to streamline work process flow for supporting the 11 manufacturing plants on site, minimizing lag time and increasing productivity to improve yield
- Supported as a member of a site-wide leadership team to track, analyze, and project personal safety incidents in order to create campaigns and other initiatives to reduce injuries within the manufacturing and office facilities
- Improved energy-saving practices across the 32 facilities and offices buildings on site by implementing a company award-winning initiative to conduct audits using gamification techniques to engage leaders & employees site-wide

**DISTRIBUTION & LOGISTICS INTERN, L'ORÉAL USA - LUXE DIVISION
SOUTH BRUNSWICK, NJ – SUMMER 2012**

- Collaborated with distribution managers and leaders within the warehouse, incorporating 5-S strategies to implement new visual communication strategies with the floor operational staff to improve packing efficiency and accuracy for niche clientele
- Implemented a project to improve capacity of shipments in a manual warehouse environment to ensure on-time product delivery to external customers
- Proposed financial investments in automation strategies to improve packaging efficiency and safety for the warehouse unit
- Led a team to develop & implement a new-hire on-boarding and training curriculum focused on sustainability and supply-chain processes

**GRADUATE STUDENT RESEARCHER, VILLANOVA UNIVERSITY
VILLANOVA, PA – 2011-2013**

- Partnered with Steel Orca, a data center consulting firm to use heat transfer calculations to implement LEED design principles for data center development strategies
- Led a team of Sustainable Engineering students to assess environmental impacts of data center construction and operations
- Utilized the concept of Power Usage Effectiveness (PUE) to construct a thesis around improving data center efficiency while improving capabilities
- Researched the development of accurate metrics to track Water Usage Effectiveness (WUE) ratio when implementing new cooling strategies to improve the PUE of data centers