# Experience

## Mosaic Fertilizer, LLC. June 2017 - Current

Engineer Lead September 2021 – Present

Superintendent June 2020 – September 2021

Senior Engineer March 2019 – June 2020

Project Engineer June 2017 – March 2019

Coordinate project design needs, technical evaluation of design approach and design methodologies, construction, operation and maintenance of mine infrastructure. Recent projects include the design, construct, operation and maintenance of stormwater control and Clay Settling Area (CSA) infrastructure. Work tasks require frequent interface with Mosaic internal and external subject matter experts in mining, water, infrastructure, and reclamation.

## Amec Foster Wheeler E&I, Inc. February 2010 – June 2017

Project Engineer June 2013 – June 2017

Staff Engineer February 2010 – June 2013

Coordinate the collection of field data including drilling, standard penetrometer, cone penetrometer testing, prescription and interpretation of laboratory testing to develop solutions to geotechnical problems. Typical analyses include model simulation and reporting of seepage, slope stability and consolidation for design of recharge ditches, earthen embankments, Clay Settling Areas and canals. Projects include the design and construction quality control associated with clay settling areas, phosphogypsum stack expansion and closure systems, levees, water supply reservoirs and forensic analysis of dam failure. Work tasks require frequent interface with clients and managers to develop reports, design plans, specifications, budgets and management of projects.

## Dunkelberger Engineering and Testing, Inc. May 2007 - February 2010

Staff Engineer March 2009 – February 2010

Staff Engineer May 2007 – August 2007 (Summer Intern)

Provided engineering consulting services to the private sector, state and federal governments. Coordinated the collection of field data, reviewed and interpreted laboratory testing to develop solutions to geotechnical problems under the direction of a Professional Engineer. Typical projects involved design and construction of water supply reservoirs, dredge disposal areas and storm water treatment areas.

## Ardaman and Associates, Inc. Summer 2003, 2004 & 2006

Field Technician May – August

Performed continuous monitoring and documentation of earthwork, geosynthetic installation and soil cement placement. Typical projects included construction inspection of earthen embankments for reservoirs, storm water treatment areas, process water cooling ponds and phosphogypsum stack expansion.

# Education

## Master of Civil Engineering (Geotechnical) May 2009

University of Florida – Research Assistant

## Bachelor of Science Civil Engineering May 2007

University of Central Florida

# Affiliations

Society for Mining Metallurgy and Exploration (SME) Florida Section

# Key Skills

Analytical Approach to Problem Solving

Project Management

Clay Settling Area Design, Operation and Maintenance

Mine Stormwater Control Design, Operation and Maintenance

Geotechnical Design and Reporting

Construction Quality Control and Quality Assurance

# Technical Skills

GeoStudio

Seep W/ & Slope W/

SLURRY Model

SVSlope & SVDesigner