

MICHAEL LUCCHESI

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Qualifications Profile

Key Strengths: Highly developed analytical and problem solving ability with excellent communication skills. Experienced in project management and client relationships. Successful engineering design contributions working as part of facility planning, design, and air compliance teams.

Environmental: Provision of environmental services from air permitting assistance to sample collection/analysis to modeling. Managed projects and prepared deliverables to client specifications through effective communication with clients and internal staff.

Chemical Engineering: Design of chemical facility utility systems and amine scrubbing processes for CO₂ capture and sequestration. Working collaboratively as part of a design team, developed PID's, PFD's, and other design deliverables using design workflow processes.

Technical Skills

General: Windows-based PCs with Microsoft Excel, Outlook, Power Point, Word, preparation of advanced spreadsheet tools and models, technical reports and design documentation, object-oriented programming.

Programming Languages: Java, C, C++, Matlab, VBA, Python, SQL

Modeling: Aspen, BEEST air dispersion, Fathom, Promax

Education

Bachelor, Chemical Engineering, December 2014

University of Texas at Austin, GPA: 3.0

Experience Highlights

2015 - Present

Air Quality Specialist, Providence Engineering

- Developed relationships, prepared proposals, and managed projects for clients pertaining to compliance with environmental regulations. Project management responsibilities included:
 - Synthesis of permit application packages and all supporting documentation
 - Preparation of emission calculation spreadsheets
 - Negotiation with regulatory bodies on behalf of clients
 - Demonstration of compliance with federal and state regulatory requirements
 - Coordinating with internal staff to delegate work and meet deadlines
- Maintained strong relationships with clients through consistent and effective communication
- Improved event tracking and emissions calculation spreadsheets using visual basic macros and advanced spreadsheet techniques
- Coordinated with clients and internal staff for regular site visits and sampling events

Summer 2013

Process Intern, CH2M Hill

- Designed utility system for fertilizer production facility as part of a design team
- Responsible for successful design of cooling tower and basin for 132,000 gpm circulation cooling system including tower size, basin dimensions, pump placement, line sizing, etc.
- Created PIDs, PFDs, heat/mass balance, and more

Summer 2012

Process Intern, CH2M Hill

- Performed design work on an ethanol plant in plant utilities
- Collaborated with design leads to accommodate changing design requirements
- Received bonus/award in recognition of hard and successful work
- Proposed material change in clean steam system to save thousands

PROJECTS

Project Manager: *Air Compliance Assistance, Forum Energy Technologies, Facilities Throughout Oklahoma*

Serving as main point of contact for Providence air team with Forum. Assisting Forum with operational changes to comply with regulatory restrictions and facilitating ongoing negotiations with the Oklahoma Department of Environmental Quality (ODEQ). (Sep2017-Present)

Project Manager: *ODEQ Negotiations, Forum Energy Technologies, Facilities Throughout Oklahoma*

Served as main point of contact for Providence air team with both Forum and ODEQ. Negotiated with ODEQ on Forum's behalf regarding previously submitted permits for Forum's Oklahoma facilities. Provided guidance to Forum on process operations for compliance with MMM NESHAP and Oklahoma state regulations. Completed entirety of project scope to Forum's satisfaction. (Jun2017-Sep2017)

Air Quality Specialist: *Total CEMS Validation and Technical Assistance*

Managed production of semiannual continuous emissions monitoring (CEMS) and excess emissions reports. Improved accuracy of CEMS data by removing calibration data. Streamlined data validation process using advanced Excel techniques. (June2016-present)

Air Quality Specialist: *Stormwater Compliance and Visual Inspections, Republic Services, Houston Texas*

Developed Excel tool to track MSS emissions across Pioneer's facilities using VBA macros and advanced spreadsheet techniques. (Apr2017-Jun2017)

Air Quality Specialist: *MSS Tracking Tool VBA Development, Pioneer Natural Resources Company, Irving Texas*

Developed Excel tool to track MSS emissions across Pioneer's facilities using VBA macros and advanced spreadsheet techniques. (Dec2016-Jan2017)

Air Quality Specialist: *Air Dispersion Modeling, Brenntag, Inc., Houston Texas*

Prepared MERA analysis and air dispersion model for expansion of existing PVS facility under supervision from senior modeling expert. Prepared summary reports of modeling results. (Nov2016)

Air Quality Specialist: *Air Dispersion Modeling, PVS Technologies, Inc., Houston Texas*

Prepared MERA analysis and air dispersion model for expansion of existing PVS facility under supervision from senior modeling expert. Prepared summary reports of modeling results. (Oct2016)

Air Quality Specialist: *Facility Response Plan, Orion Engineered Carbons, LLC, Orange Texas*

Provided guidance and documentation of regulatory compliance with SPCC and FRP requirements for Orion's Orange Carbon Black Plant Facility Response Plan. (Apr2016)

Air Quality Specialist: *Emissions Inventory, Kuraray, Inc., Pasadena Texas*

Prepared emission inventory using STEERS and associated emission calculations for Kuraray's PVOH facility in Pasadena. (Mar2016)

Air Quality Specialist: *Permit Renewal/Application, K-Bin, Inc., Freeport, TX*

Preparation of New Source Review (NSR) permit renewal, amendment, and supporting documentation for K-Bin's existing Freeport PVC processing facility and its expansion on behalf of Shintech, Inc. (May2016-Feb2017)

Air Quality Specialist: *Method 325A Fenceline Monitoring, Valero Energy Corp., Petroleum Refineries Throughout Texas.*

Involved with all aspects of method 325A fenceline monitoring air sample collection including project management, client relationships, and scheduling, analysis of results, meteorological data acquisition and analysis, regular collection of samples, sample shelter installation, meteorological station installation and maintenance. (Oct2015-Present)