

Rishabh Shah

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EDUCATION

UNIVERSITY OF ILLINOIS AT URBANA-CHAMPAIGN

M.S. CIVIL AND

ENVIRONMENTAL ENGINEERING

Expected Aug 2015 | GPA: 3.91

GUJARAT TECHNOLOGICAL UNIVERSITY

B.E. ENVIRONMENTAL

ENGINEERING

June 2013 | GPA: 8.67/10.00

COURSEWORK

GRADUATE

Air Quality Engineering

Air Quality Modeling

Atmospheric Meteorology

Aerosol Sampling and Analysis

Environmental Transport Modeling

Water Chemistry

UNDERGRADUATE

Wastewater Treatment Process

Design

Environmental Impact Assessment

Environmental Legislation and Audit

Occupational Health and Safety

Waste Management

Project Management

Fundamentals of Automobile

Engineering

Conventional Power Engineering

SKILLS

COMPUTER

Aerosol Instrument Manager •

LabVIEW • MATLAB • AERMOD •

Engineering Equation Solver •

WRPLOT View • MINEQL+ •

ALOHA • MARPLOT

CERTIFICATES

•Energy and Sustainability

Engineering | Jan 2015| University

of Illinois, Urbana-Champaign

•Certified LabVIEW Associate

Developer (CLAD) | Jan 2015 |

National Instruments

EXPERIENCE

GRADUATE RESEARCH ASSISTANT | DEPT. OF CIVIL AND ENVIRONMENTAL ENGINEERING, UNIVERSITY OF ILLINOIS AT URBANA-CHAMPAIGN

Expected May 2014 – Aug 2015 | Urbana, IL

- Advised by Dr. Mark J. Rood and Dr. Tami C. Bond.
- Conducting laboratory experiments to characterize the optical properties and cloud condensation nuclei (CCN) activity of biomass-burning aerosol in tandem with atmospherically relevant tracer gas, ozone. Extensive use of aerosol sampling and measurement equipment.
- Research funded by the US Department of Energy.

GRADUATE TEACHING ASSISTANT | DEPT. OF NATURAL RESOURCES AND ENVIRONMENTAL SCIENCES, UNIVERSITY OF ILLINOIS AT URBANA-CHAMPAIGN

Jan 2014 – May 2014 | Urbana, IL

- Assistant to Dr. Bethany B. Cutts.
- Tasks included leading weekly discussion sessions, weekly course planning, holding office hours and grading assignments. Worked under Dr. Bethany Cutts.

VOCATIONAL TRAINEE | ENVIRONMENTAL CONTROL UNIT, GUJARAT NARMADA-VALLEY FERTILIZERS PVT. LTD. (GNFC)

June 2012 | Bharuch, Gujarat, India

- Stationed at the Nitro-Effluent and Common Effluent Treatment Plant (NETP and CETP) for treating combined effluent streams from various chemical manufacturing units of GNFC.

PROJECT EXPERIENCE

AUTOMOTIVE AIR POLLUTION AND ITS CONTROL BY CATALYTIC CONVERTERS

Fall 2013 | Independent Study | University of Illinois

A study of the formation of air pollutants in an internal combustion engine, role of catalytic converters in controlling emissions, limitations and trade-offs of using catalytic converters

MODELING OF INCREASE IN SO₂ CONCENTRATIONS DUE TO PROPOSED ERECTION OF STACKS

Fall 2013 | Coursework Project | University of Illinois

Modeling ambient SO₂ emissions around proposed site of stack erection using AERMOD, Breeze 3D Analyst and WRPLOT View™ software.

MITIGATION RESPONSE FOLLOWING A CYCLOHEXANE SPILL

Fall 2013 | Coursework Project | University of Illinois

Modeling the behaviour of a hypothetical cyclohexane spill using computer software, viz. ALOHA, MARPLOT and CAMEO Chemicals and to develop an emergency response plan to be followed in such scenario.

PRESENTATIONS

- Poster: "Measuring CCN of Organic Carbon with Ammonia As Aging Gas" Apr 2014 | Environmental Engineering and Science Symposium | Champaign IL