



**CREDENTIALS**

- ◆ M.Eng. Environmental Engineering, Cornell University 2014
- ◆ B.S. Chemical Engineering, Cornell University 2012
- ◆ Engineer-in-Training Certification, 2014

**PROFESSIONAL EXPERIENCE**

- ◆ 2022 – Present: ALL4, Philadelphia, PA – Consulting Engineer
- ◆ 2020 – 2022: ALL4, Philadelphia, PA – Project Engineer
- ◆ 2019 – 2020 Environmental Strategy Consultants Inc., Philadelphia, PA – Environmental Engineer
- ◆ 2014 – 2019 Air Management Services, Philadelphia, PA – Environmental Engineer

**TECHNICAL EXPERTISE**

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|---|--|
| ✓ Environmental compliance strategy         | ✓ Philadelphia air permitting and compliance |
| ✓ Air emissions statements and calculations | ✓ PA, NJ, and DE regulations                 |
| ✓ Air compliance auditing                   | ✓ Title V and minor source air permitting    |
| ✓ Method 9 opacity monitoring               | ✓ NSPS, NESHAP                               |
| ✓ PPC, SPCC                                 | ✓ TRI, EPCRA                                 |
| ✓ NPDES                                     | ✓ NJ risk assessment screening               |
| ✓ Hazardous waste reporting                 | ✓ Greenhouse gas monitoring                  |
| ✓ Residual waste 26R reporting              | ✓ NJDEP Radius                               |
| ✓ 25R Source Reduction Strategies           | ✓ ehsAI                                      |
| ✓ Tier II/CRTK/ERP                          |  |

**PROFESSIONAL OVERVIEW**

Luke Zhu is a Consulting Engineer at ALL4 with over seven years of experience in air permitting and compliance. He has supported industries including metal working, pharmaceuticals, wood/metal coating, chemical manufacturing and distribution, food/beverage, and wastewater treatment across Pennsylvania, New Jersey, Delaware, Maryland, New York, Florida, and Montana. Luke has experience in air quality applicability assessments in NSPS, NESHAP, Greenhouse gas monitoring, NSR, PSD, and other Federal, state, and local regulations. He has worked with clients directly and has supported projects in developing environmental compliance tracking, emissions tracking, regulatory analyses, periodic reports, and permit applications. Luke's multimedia environmental experience consists of developing facility plans (PPC, SPCC, ERP), developing NPDES applications, and reporting (EPCRA Tier II, residual waste, hazardous waste, IDMR, TRI, RPPR).

Luke joined ALL4 after 1 year of experience in multimedia environmental consulting upon ALL4's acquisition of Environmental Strategy Consultants, Inc. (ESC). Prior to consulting, Luke has 5 years of professional experience in air permitting, compliance, and enforcement with Philadelphia Air Management Services (AMS). He has experience in writing installation permits, plan approvals, and operating permits; conducting full compliance audits of Title V and minor sources in Philadelphia County; reviewing compliance reports and emission inventories; identifying compliance issues; issuing notices of violation; and carrying out enforcement of compliance issues and violations.