CURRICULUM VITAE - AKILA JAYASUNDARA (MR)

ENVIRONMENTAL OFFICER | AIR QUALITY SPECIALIST

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SUMMARY

I am an experienced environmental professional with eight years in the public sector. My work covers environmental monitoring and management in the areas of **air quality**, noise & vibration. I handle technical tools, including setting up air quality devices and networks and carrying out data analysis & dissemination. I apply my efforts to improve monitoring systems and to support practical environmental solutions at the national level. I am now seeking opportunities to leverage my skills, experience & enthusiasm to advance national air quality monitoring and contribute to broader regional and **global** initiatives.

EXPERIENCE

Environmental Officer – Central Environmental Authority, Sri Lanka (2017 – Present)

Air Quality Management: Policy, Regulatory and Planning

- Leading role in preparation of the National AQI - Air Quality Index for Sri Lanka, Calculation & Guideline (AQI-SL).
- Contributed drafting the *Contingency Response Action Plan for Deterioration of Air Quality in Sri Lanka* (CRAP-DAQ-SL).
- Major role in establishing the National Air Quality Network, and its software platform. (AQ.CEA.LK).
- Supportive role in preparation of the Emission Inventory for Colombo Metropolitan Area.
- Supportive role in reviewing the National Environmental (Stationary Source Emission Control) Regulations.
- Regulatory work related to the National Environmental (Ambient Air Quality) Regulations, Sri Lanka.
- Served as a Technical Evaluation Committee (TEC) member for air quality related projects.
- Represented the institute and the country, in national/international conferences and technical events.

Air Quality Monitoring: Technical Expertise

- Managed and maintained regulatory/reference-grade Air Quality Monitoring Stations (AQMS).
- Set up and currently manage a low-cost micro-sensor network to expand national monitoring coverage.
- Performed Inter-Laboratory Comparison (ILC) events to ensure data quality across government, private, and accredited laboratories.
- Calibrated air quality monitoring devices using reference tools.
- Conducted colocation and comparison studies between low-cost and reference-grade sensors to assess accuracy and apply correction factors.
- Conducted statistical analysis of air quality data and published technical reports.
- Carried out regulatory measurements and surveys of industrial emissions and ambient air quality.

Familiar Equipment

Low Cost MicroSensors & Hand-Held Devices

- IQAir AirVisual Outdoor & Pro (Indoor)
- TSI BlueSky PM, TSI DustTrak, TSI Q-Trak
- Ellona WT1 Pro (Low/Medium Cost Sensor Station)

Regulatory/Reference-Grade Devices

- MetOne & Serinus Spirant BAM Particulate Monitors
- Ecotech/ACOEM Serinus Gaseous Pollutant Monitors & Gas Calibrators.
- High Volume Samplers (TSP, PM_{10}): AMS Analitica HVS

Familiar Data Platforms & Software

- OpenAQ platform
- AQMx - Air Quality Management Exchange Platform (CCAC, UNEP)
- NOAA HYSLPLIT, NASA MODIS

- Airodis Data Management Client and WinAQMS Data Logger (Ecotech/ACOEM)
- Statistical Tools: R Statistical Software, SPSS, Minitab, EViews, STATA
- GIS tools: ArcGIS, QGIS, Google Earth Pro

Other Environmental Related Work

- Conducted field monitoring and analysis of Noise (acoustic) and Vibration levels.
- Providing technical support to EIA (Environmental Impact Assessments) & IEE (Initial Environmental Examinations).
- Member of Sri Lanka Association for the Advancement of Science (SLAAS) and Institute of Environmental Professionals Sri Lanka (IEPSL).

OTHER WORK EXPERIENCE

Associate Consultant – UniverSL software, Sri Lanka (2014–2016)

- Completed Business Process Mapping projects to optimize operations
- Managed projects including Website Designing and Optimization
- Handled media export, video production, and video encoding tasks

Demonstrator/Instructor - Information and Communication Technology Centre - University of Kelaniya, Sri Lanka (2011–2014)

- Managed and executed student workshops and practical sessions
- Performed Software & Information Systems Installation, Maintenance, and Troubleshooting

RESEARCH & PUBLICATIONS

Link: Google Scholar - Akila Jayasundara

- Seasonal Variability of Air Pollutants and Their Relationships to Meteorological Parameters in an Urban Environment – Journal: Advances in Meteorology
- Changes of Air Pollutants in Urban Cities during the COVID-19 Lockdown-Sri Lanka – Journal: Aerosol and Air Quality Research

CERTIFICATION

- GIS, Mapping, and Spatial Analysis (Specialization) – Coursera + University of Toronto
- Advanced Diploma in GIS – Alison
- Introduction to Indoor Air Quality (Certification) – Coursera + The Hong Kong University of Science and Technology
- Diploma in Environmental Quality Monitoring and Analysis – Alison

EDUCATION

- **B.Sc. (Bachelor of Science, Physical Science)**, University of Colombo, Sri Lanka.
  - *Core Subjects: Physics, Applied Mathematics, Statistics, and Computer Science.*
- **BIT (Bachelor of Information Technology, Higher Diploma)**, University of Colombo, School of Computing (UCSC).

LANGUAGE SKILLS

- English (Professional)
- Sinhala (Native)

REFEREES

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