



YASHARA RATHNASEKARA

Graduate of Bio-Systems Technology Honours in
Environmental Technology

I'm Environmental Technology graduate from the University of Colombo with strong research experience in sustainable environmental solutions. Skilled in laboratory work, nanotechnology applications, and microplastic analysis, with additional exposure to HR operations in an industrial environment, including employee coordination and administrative support. A motivated and adaptable individual with strong analytical and teamwork skills, eager to contribute to organizational success while continuing to grow professionally.

CONTACT

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📍 No. 300, Arakavila, Hadapangoda

TECHNICAL SKILLS

- Laboratory Techniques
- Scientific Research and Data Interpretation
- GIS and Environmental Mapping
- Technical Documentation & Reporting

ACADAMIC SKILLS

- Environmental Sustainability
- Safety and Risk Management
- Green Technology
- Air and Water Quality Analysis
- Solid Waste Management
- Microbiology
- Chemical In the environment
- Molecular Biology and Biotechnology
- Nanobiotechnology
- Ecotoxicology
- Environmental Planning and Auditing
- Environmental Law



WORK EXPERIENCE

HR Intern December 2025 - Current
Inoac Polymer Lanka (PVT) Ltd.

- Acquired experience in an industrial setting, facilitating daily HR operations.
- Aided in managing HR functions in collaboration with external service providers and stakeholders.
- Offered assistance for ISO certification processes, especially concerning HR-related audits.
- Assisted with employee-related administrative duties and documentation.
- Enhanced skills in communication, coordination, and management of HR processes.

External Chemical Researcher January 2025 - July 2025
Centre for Defence Research and Development (CDRD)

- Executed both qualitative and quantitative assessments of microplastic pollution in environmental samples.
- Gathered, prepared, and processed samples for laboratory examination.
- Utilized microplastic identification and visualization techniques in accordance with standard laboratory protocols.
- Conducted data collection, analysis, and interpretation to bolster research conclusions.
- Practical experience in laboratory techniques, sample management, and research methodologies.
- Documentation, reporting, and presentation of research results.
- Enhanced skills in analytical reasoning, data management, and collaboration within a research setting.

Intern Research Student February 2024 - August 2024
Centre for Defence Research and Development (CDRD)

- Designed, planned, and helped establish a new Nano and Chemical Laboratory, including equipment setup and safety procedures.
- Contributed to developing a nano-based anti-corrosion coating using PTFE and related materials.
- Performed salt spray corrosion testing and supported formulation improvements.
- Carried out basic material characterization and lab experiments using standard methods.
- Gained strong hands-on skills in chemical handling, solution preparation, equipment operation, and lab safety.
- Built experience in nanotechnology product development, data recording, and teamwork in a research environment.

SOFT SKILLS

- Strong Problem-Solving Ability
- Creative and Innovative Thinking
- Time Management
- Leadership
- Team-Oriented with Effective Communication
- Management Skills

FINAL YEAR RESEARCH

Quantitative and qualitative assessment of microplastic contamination in cow dung across urban, suburban, and rural areas of Colombo
(KADY Rathnasekara)

Conducted an independent research study on microplastic contamination in terrestrial ecosystems, using cow dung as a bioindicator across urban, suburban, and rural areas of Colombo District. Performed sample collection, laboratory analysis, and microscopic identification of microplastics. Applied statistical analysis to evaluate the impact of urbanization and population density on contamination levels. Findings highlighted the widespread presence of microplastics and their potential risks to soil health, agricultural systems, and human exposure pathways.

EXTRA CURRICULAR ACTIVITIES & ACHIEVEMENT

- Member of University Kabaddi team, University of Colombo [2020- 2023]
- Creation coordinator at Environmental Technology Society, Faculty of Technology [2020- 2025]

LANGUAGE

- Sinhala ● ● ●
- English ● ● ●



EDUCATION

Bachelor of Bio-Systems Technology Honours in Environmental Technology	2021 - 2025
GPA-3.25 Faculty of Technology University of Colombo	
Diploma In Human Resource Management	2023 - 2024
IMBS campus	
Diploma In IT	2019 - 2020
ESoft Metro Campus	
Diploma In English language	2017
British way English Academy	
G.C.E Advanced Level Examination	2019
Mahinda Rajapaksha College - Homagama Bio Systems Technology stream Bio Systems Technology - B Science for Technology - B Information and Communication Technology - B	
G.C.E Ordinary Level Examination	2016
Royal College- Horana 8A's and 1B	
Certificate Course in ISO - 14001 Enviromental Management system	2022
University of Peradeniya	



PUCLICATION & PROJECTS

- Anuruddha Heenatigala*, Madhubhashini AN2, Imasha RAE3, Rathnasekara KADY4. (2025)** *Evaluating the impact on plastic pollution in sri lanka and global perspectives.*
Combating Plastic Pollution in Terrestrial Environment Challenges and Strategies for a Sustainable Future.
- K.A.D.Y. Rathnasekara*, A. Heenatigala** *QUANTITATIVE AND QUALITATIVE ASSESSMENT OF MICROPLASTIC CONTAMINATION IN COW DUNG ACROSS URBAN, SUBURBAN, AND RURAL AREAS OF COLOMBO*
- Development of a bird repellent aerosol.**
- Development an Anticorrosion Coating for Military Application.**
- Temperature and humidity detector in green house**
- Development of a bioplastic using Avocado (Persea americana) peels**



REFERENCE

Lcdr. Anuruddha Heenatigala Chief Coordinator - Nano Wing Center for Defence Research and Development Phone: 0776962660 E-mail anu.hee.best@gmail.com	Capt. Muditha Ranasinghe Project officer Center for Defence Research and Development Phone: 0776440511 E-mail mudithahr@gmail.com
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