

H. V. H. C. Dayananda

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45/B, Irrigation Quarters, Kandawala Road, Rathmalana, Sri Lanka

Profile

Detail-oriented and analytical Physics graduate with strong problem-solving skills and hands-on experience in electronic systems, data analysis, and experimental design. Demonstrated ability to plan, develop, and optimize technical processes through academic projects and laboratory work. Experienced in data acquisition, system integration, and performance analysis with a high level of accuracy and attention to detail. Adept at working in structured environments, managing tasks efficiently, and collaborating within teams. Passionate about applying technical and analytical skills in industrial and manufacturing settings, with a strong interest in technical planning, process improvement, and operational efficiency.

Education

University of Sri Jayewardenepura 2021–2025

B.Sc. (Honors) in Physics

Physics , Mathematics , Statistics

University of Colombo

November 2019-February 2020

Certificate Course in Computer Applications

Institute of Human Resource Advancement

Central College Kuliapitiya

2016–2018

Passed G.C.E A/L Examination in Physical Science Stream

Mathematics–A

Physics–B

Chemistry–B

Professional Experience

Internship - National Building Research Organization-Colombo

3 months

Department of Building Material Research and Testing Division

- Assisted in building material testing and laboratory procedures, contributed to foam concrete research through data collection and analysis, and developed a quotation management interface using Python and MySQL for data collection.

Graduate Teaching Assistant – Electronics Laboratory

2025–2026

Department of Physics, University of Sri Jayewardenepura

Technical Project Experience

Low-Cost Three-Electrode Potentiostat for Electrochemical Measurement 2025

Undergraduate Research Project

- Planned and coordinated system development activities, managed resources and data, monitored operational performance, and applied analytical and problem-solving skills to improve process efficiency and support effective decision-making.

Publications

- H.V.H.C Dayananda, R.A.D.D Dharmasiri, W.K.I.L. Wanniarachchi, N.P.L.N. Palliyaguru (2025). *Low-Cost Three-Electrode Potentiostat for Electrochemical Measurements*. Proceedings of the Young Scientists' Conference on Multidisciplinary Research – 2025. PDF

Skills

- **Data Handling:** Data analysis, visualization, interpretation
- **Software Tools:** Proteus, CoolTerm, Mathematica, R Studio
- **Programming:** Python
- **Core Competencies:** Technical Planning and Coordination, Data Analysis and Interpretation, Problem Solving, Time Management
- **Other:** Microsoft Office package (Excel, PowerPoint, Word), Google Workplace, reporting, documentation

Languages

Sinhala (Native), English (Professional proficiency)

Referees

Prof. W. K. I. L. Wanniarachchi

Email: iwanni@sjp.ac.lk

Phone: +94 11 275 8889

Relationship: Research Co-Supervisor

Dr. R. A. D. D. Dharmasiri

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Relationship: Research Supervisor