

Buvindu Suraweera

📍 Colombo, Sri Lanka 📩 buvindus.23@cse.mrt.ac.lk ☎ 076 671 8790
👤 Buvindu Suraweera 💬 BuvinduS

Areas of Interest

- Embedded Systems and IoT
- Robotics and Automation
- Computer Vision
- Web Development and Software Engineering
- Machine Learning (ML) and Artificial Intelligence (AI)

Education

University of Moratuwa, Sri Lanka March 2024 – to date
B.Sc Engineering (Undergraduate) (Computer Science and Engineering)

D.S.Senanayaka College, Colombo, Sri Lanka January 2009 – January 2023
G.C.E Advanced Level 2022(2023)

- **Z-Score:** 2.1365
- **Stream:** Physical Science Stream
- **Subjects :** Combined Mathematics (A), Physics (A), Chemistry (A), General English (A)

G.C.E Ordinary Level Examination 2019

- **Subjects :** Mathematics (A), Science (A), History (A), Buddhism (A), English (A), Sinhala Language & Literature (A), Business & Accounting Studies (A), Appreciation of English Literary Texts (A), Information & Communication Technology (A)

Wendy Whatmore Academy of Speech & Drama 2008 – 2019
Written and Spoken English

Experience

B.Sc Engineering (Undergraduate) University of Moratuwa
Department of Computer Science and Engineering, Faculty of Engineering January 2024 – to date

Projects

Custom Nano-Processor Nano-Processor ↗

- Developed a 8-bit nano processor capable of executing various instructions using hardware description languages
- Tools Used: VHDL, AMD Vivado™ Design Suite

Gesture Based Media Controller Gesture Volume Controller ↗

- Designed an intuitive gesture-based interface using **OpenCV** and **MediaPipe** to dynamically adjust system volume, exploring touchless interaction.
- Mapped detected gestures to system volume control using **Pycaw**
- Uses **Numpy** and an **Exponential Moving Average** to ensure stability.

- AI powered travel planning platform
- Designed and developed as a part of Team_404 for the competition Idealize 2025.
- Handled API management and backend development.

Certificates & Achievements

- **Fundamentals of Accelerated Data Science : NVIDIA Deep Learning Institute** [Certificate](#) 
 - Execution of end-to-end GPU accelerated data science workflows
- **The Arduino Platform and C Programming : Coursera, University of California, Irvine** [Certificate](#) 
 - Skills Gained include : Embedded Software handling, C (Programming Language), Computer Hardware handling, Micro-controller Usage.
- **Finalist - Idealize 2025**
 - National Mobile App and Web Development competition organized by AIESEC in University of Moratuwa .
- **HackerRank Skill Certification : Python (Basic)** [Certificate](#) 
 - Covers topics like Scalar Types, Operators and Control Flow, Strings, Collections and Iteration, Modularity, Objects and Types and Classes
- **Wendy Whatmore Academy of Speech & Drama : Written English** : Grade 1 (Distinction), Grade 2 (Distinction), Grade 3 (Merit), Grade 4 (Honours), Grade 5 (Distinction), Grade 6 (Merit), Grade 7 (Honours)
- **Wendy Whatmore Academy of Speech & Drama : Spoken English** : Grade 1 (Distinction), Grade 2 (Distinction), Grade 3 (Distinction), Grade 4 (Distinction), Grade 5 (Distinction)
- **First Place - Spoken English Examinations, 2016**
 - Wendy Whatmore Academy of Speech & Drama
- **First Place - Spoken English Examinations, 2013**
 - Wendy Whatmore Academy of Speech & Drama

Soft Skills

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|----------------------------|---------------------------------------|---|
| • Problem Solving | • Proficiency in various technologies | • Time Management |
| • Teamwork & collaboration | • Creativity | • Strong bilingual communication skills |

Personal Information

- **Full Name** : Buvindu Umesh Don Suraweera
- **Citizenship** : Sri Lankan
- **Communication Proficiency**
 - English (excellent fluency)
 - Sinhala (excellent fluency)