

DINURA DISSANAYAKE

DEPARTMENT OF COMPUTER ENGINEERING, UNIVERSITY OF PERADENIYA, SRI LANKA

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in Dinura Dissanayake github.com/dinuransika

EDUCATION

DECEMBER 2018 -RESENT **UNIVERSITY OF PERADENIYA** BSc Engineering (Hons) — Faculty of Engineering GPA - 3.77 / 4.0

D.S. SENANAYAKE COLLEGE DECEMBER 2009 - AUGUST 2017 G.C.E. Advance Level Examination Comb. Maths (A), Physics (B), Chemistry (B)

PROFILE

I'm a 3rd-year computer engineering undergraduate with a keen interest in machine learning, computer vision, and embedded systems.

2021

ACHIEVEMENTS	
 TOP 500TH PLACE AMONG 6000+ TEAMS - IEEEXTREME 16.0 Top 10th country rank 24 hour competitive programming competition for university undergraduates worldwide. 	2022
 5TH PLACE(OUT OF 100+ TEAMS) - MINI HACKATHON - ICDS Developed a Bill checking mechanism using OCR. Data Science Hackathon organized by the University of Colombo 	2021
 14TH PLACE(OUT OF 100+ TEAMS) - ACES CODERS Overnight inter-university coding competition organized by University of Peradeniya 	2020
Organized by the Institute of Physics, Sri Lanka	2017
PROJECTS	

 A web-based system interactively learns plays or teaches with the aid of a hardware unit and a web application. Technologies - React JS, Node JS, Express, Flutter, Embedded Systems 	
 ANALYSIS TOOL FOR INDUSTRIAL IMAGES Group Project 	2022
8-BIT SINGLE CYCLE PROCESSOR Group Project 🕡	2021

 An 8-bit single-cycle CPU with associated memory hierarchy. The processor includes an ALU, register file, control logic, forwarding unit, data memory, data cache, instruction memory, and instruction cache.

REMOTE KEYBOARD TUTORING SYSTEM | Group Project | (##)

• Technologies - Verilog-HDL

COMPILER FOR COOL LANGUAGE | Group Project | 🗘

2021

- The combination of a lexer, parser, semantic analyzer, and code generator can be used to compile programs written in Cool programming language.
- Technologies C++

CRC USING CUSTOMIZED NIOSII PROCESSOR | Individual Project |

2022

- Improved performance of the Cyclic-Redundancy-Check algorithm by adding a custom instruction to the MIPS ISA of NiosII processor.
- Implementation of hardware functionality using XOR and shift operations.
- · Technologies FPGA, C

IMAGE PROCESSING TECHNIQUES TO DETECT DAMAGED FRUIT | Group Project |

2019

- Image Filtering with OpenCV was used to create an algorithm to detect the deformities of fruit. Created an application using python to continuously monitor a given set of images.
- Technologies Python, OpenCV, Kanny, Sobel

TECHNICAL SKILLS

- Languages: Python, Java, C, HTML/CSS, JavaScript, SQL, C++, ARM Assembly, Verilog-HDL
- Frameworks: React JS, Express, Node JS, Flutter, Jekyll
- Graphic Designing: Photoshop, Illustrator, Blender, Premier Pro

EXPERIENCE

TEACHING ASSISTANT - CO 222 - PROGRAMMING METHODOLOGY

MAY 2020 - SEPTEMBER 2020

- Supervised and helped students in weekly 2hr long online lab sessions
- · Created questions for online quizzes based on the C programming Language

VOLUNTEER WEB DEVELOPER

NOVEMBER 2022 - PRESENT

 Developing the official website for the Embedded Systems and Computer Architecture Laboratory in the Computer Engineering Department, University of Peradeniya

LEADERSHIP / EXTRACURRICULAR

AIESEC IN UINVERSITY OF PERADENIYA

· Marketing Manager - Incoming Global Volunteer

• Business to Business Manager - Incoming Global Volunteer

• Team Leader - Incoming Global Volunteer

Value Delivery Team Leader - Incoming Global Volunteer

DEC 2019 - FEBRUARY 2022

SEPTEMBER 2021 - FEBRUARY 2022 MARCH 2021 - AUGUST 2021

SEPTEMBER 2020 - FEBRUARY 2021

MARCH 2021 - AUGUST 2021

AIESEC IN SRI LANKA

Incoming Global Volunteer Task Force Member

• Media Specialist(Radio) - Public Relations Team - Youth4Youth

DEC 2019 - JUL 2022

SEPTEMBER 2020 - DECEMBER 2021

FEBRUARY 2022 - PRESENT

RECOMMENDATION

PROF. ROSHAN G. RAGEL

Head of Department,
Department of Computer Engineering,
Faculty of Engineering,
University of Peradeniya, Sri Lanka.

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DR. ISURU NAWINNE

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