INOJ AKALANKA

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EDUCATION

University of Moratuwa

BSc (Hons) in Engineering

📅 Nov 2016 - Jul 2021   📍 Katubedda, Sri Lanka

- Biomedical Engineering Major GPA: 3.54/4.2 (Second Upper)
- 4 years full time degree

Richmond College

G.C.E Advanced Level

📅 Aug 2013 - Aug 2015   📍 Galle, Sri Lanka

- Studied in Physical Science Stream
- Combined Mathematics (A), Chemistry (A), Physics (B)
- National Rank: 336, District Rank: 39, Z-Score: 2.2557

EXPERIENCE

Research and Development Engineer II

Synopsys Lanka (Pvt) Ltd

📅 June 2021 - Present   📍 Colombo, Sri Lanka

- Working as a memeber of ZeBu Engineering Operations and Analytics team
- Part of few projects which deal with quality/performance aspect of the product
- Aid internal customers to be effective and efficient with their work

Research and Development Internship

LE Robotics (Pvt) Ltd

📅 July 2019 - Dec 2019   📍 Minuwangoda, Sri Lanka

- Researched to enhance existing object detection algorithm using ARM Assembly language
- Designed a customized Printed Circuit Board (PCB) for a Torque Sensor
- Implemented an C-Sharp application to calibrate a camera automatically before it is used for object detection

TECHNICAL SKILLS

Python Shell scripting HTML PHP CSS JS
SQLite Verilog C C-Sharp Unity Blender
OrCad Solidworks Scilab CentOS MS Office

LANGUAGES

English   ●●●●○

Sinhala   ●●●●●

CAREER OBJECTIVE

- I am a highly motivated inividual/team player who is looking forward to pursue a career in different engineering fields where novel technologies which support the existence of human race and mother nature will be invented.

INTERESTS

- Programming
- Web Development
- Digital IC Designing (Verilog)
- Virtual Reality and Game Development
- Bioinformatics
- Robotics in Medicine and other Engineering Fields

PROJECTS

Tests Bulk Breakage Identifier and Analyzer

- Used python to scan through logs dumped by test suit runs to identify bulk breakages and then used SQLite to dump useful information grepped in to a database.
- Used HTML, PHP and CSS to visualize the useful data from the database as tables and graphs for management purposes.

Measurement of Presence in VR

- Apply VR development, 3D modeling, bio signals and statistical knowledge in order to research for a measurement to quantify presence (someone's engagement) in Virtual Reality.
- Taking part in 3D modeling VR Objects in Blender, designing questionnaire in Unity for VR etc.

YOLO optimization using ARM Assembly

- Applied ARM architectural, microprocessor and C programming knowledge in order to optimize You Only Look Once (YOLO) real-time object detection algorithm so that it can be efficiently run on Raspberry Pi 3B+.
- Studied ARM ISA in order to find assembly level instructions so that mathematical calculations can be optimized using parallel computations and findings were presented to team members using PowerPoint.

HOBBIES

Blogging Videography Hiking
Exploring Swimming Life-Saving
Volunteering