



Kahanda Arachchige Akshith Kalhara Wijenayake

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Gender: Male **Date of birth:** 01/07/1997 **Nationality:** Sri Lankan

WORK EXPERIENCE

Nova System Solution (pvt) Ltd.

[05/01/2022 – 20/12/2022] **Trainee Network Engineer**

1. Maintenance and troubleshooting network breakdowns
2. Designing and implementing new networks
3. Configuring Access points, Routers, Switches and Servers (DHCP, Proxy)

Rajarata University of Mihintale Sri Lanka

[15/12/2020 – 14/06/2021] **Internship Network and System Specialist**

1. Configure Switches (Aruba, HP, Cisco)
2. Configure Access Points (Aruba, Rukus)
3. Configure Servers (Dell, HP)
4. Troubleshoot Devices (PCs, Printers, Network Devices)

Projects - Networking Faculties, Student Hostels and Auditoriums.

EDUCATION AND TRAINING

[06/03/2023 – Current] **MSc Information Systems**

University of Innsbruck <https://www.uibk.ac.at/en/>

Address: Innrain 52, 6020, Innsbruck, Austria |

[04/02/2018 – 30/11/2021] **BSc (Hons) in Information Technology Specializing in Computer Systems and Network Engineering**

Sri Lanka Institute of Information Technology <https://www.sliit.lk>

Address: SLIIT Malabe Campus, New Kandy Road, 10115, Malabe, Sri Lanka | **Field(s) of study:** Computer Systems and Network Engineering | **NQF Level:** NVQ 7 | **Number of credits:** 147 | **The sis:** Smart Monitoring and Disease Detection for Robotic Harvesting of Tomatoes

Main subjects - Network Fundamentals, Routing and Switching, Advanced Internet working, Virtual Cloud Technology, System Administration, Wide Area Networks, Programming languages (C, C++, Java) , Wireless Communication, Security Management, Probability and Statistics, Information Systems, Operating Systems, Digital and Analogue Electronics, Embedded Systems, Business Management, Network Programming.

[01/01/2014 – 02/10/2017] **Advanced Level**

Central College Anuradhapura

Address: Central College Anuradhapura, 50000, Anuradhapura, Sri Lanka | **Field(s) of study:** Physical Science

[13/03/2008 – 29/12/2013] **Ordinary Level**

Central College Anuradhapura

Address: Central College Anuradhapura, 50000, Anuradhapura, Sri Lanka |

LANGUAGE SKILLS

Mother tongue(s): Sinhala

Other language(s):

English

LISTENING C1 **READING** C1 **WRITING** C1

SPOKEN PRODUCTION C1 **SPOKEN INTERACTION** C1

German

LISTENING A2 **READING** A2 **WRITING** A2

SPOKEN PRODUCTION A2 **SPOKEN INTERACTION** A2

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

SKILLS

Social Media | Microsoft Office | Cisco CCNA - Associate Level | Programming Languages: C, C++, Python, Matlab | Basic Networking (TCP, UDP, IP, ICMP, ARP Static routing) | Cloud computing (Oracle Cloud, Google cloud, G-Cloud) | LAN, RIP, RIPv2, EIGRP, OSPF, VLAN, VTP, STP, Inter-VLAN Routing | Aruba switches | WiFi Access Point | Network interconnection (Cisco, Switch, Router) | LAN network configuration | Operating Systems (Windows, Linux) | Networking (TCP/IP, LAN/WLAN, Wi-Fi, VPN, DHCP, port forwarding, switching, routing) | Computer Troubleshooting and Repair | Network technology | Windows & Windows Server | IT & Networking | VMWARE WorkStation | IT Troubleshooting | Firewall and networks segments protection | Computing security

PUBLICATIONS

[2021] [Smart Monitoring and Disease Detection for Robotic Harvesting of Tomatoes](#)

Tomato is a one of the most popular produced and extensively consumed vegetables in the world. Typical agricultural systems make extensive use of human labor which is more costly and less effective. This research explores the minimization of human labor through automation. The diseases infected by tomato plants are hard to detect. Identifying these diseases in advance would save the cultivation of the disease from spreading, thereby saving the crop. It is also a difficult task to recognize the ripe harvest and experienced labor is required. The efficiency of the harvesting method will be increased by automating the identification process of ripened fruits. Manually picking tomatoes can cause some harm to the fruits during plucking due to inconsistencies in human labor. Such damage will be reduced through a better implemented robotic scheme. This paper presents the development of autonomous system for tomato harvesting and disease detection.

CONFERENCES AND SEMINARS

[10/12/2021] **3rd International Conference on Advancements of Computing (ICAC)** Colombo

[01/12/2021] **21st International Conference on Advances in ICT for Emerging Regions (ICTer)** Colombo

RECOMMENDATIONS

Name: Mr.Rajitha de Silva Associate Lecturer (University of Lincoln, United Kingdom)

He was my lecturer and supervisor of final year research project.

Phone number: (+44) 7521726474 | **Email:** odesilva@lincoln.ac.uk

Name: Mr.Oshada Senaweera Lecturer (University of Moratuwa, Sri Lanka)

He was my lecturer and co-supervisor of final year research project

Phone number: (+94) 715749493 | **Email:** oshadas@uom.lk

PROJECTS

[11/2021] **Tomato and Disease Detection System**

Detecting ripen tomatoes and diseased leaves using image processing and pluck them using robot manipulator and it also send the disease information to a cloud environment.

[09/2020] **Cloud Based Hospital Ward Management System**

This an Arduino based system to implement a smart bed to detect whether if the patient leave the bed and it enabling in the monitoring system, and also it monitoring the saline and blood supply to the patient.

[07/2019] **Automated Car Parking System**

Construct a line following and automated car using Arduino Uno.

[04/2019] **Digital Traffic Light for Three Way Junction**

This is a digital traffic light system for three way junction to control traffic in a junction.

[08/2018] **Smart Fan Controlling System**

The person only has to turn on the fan when he needs it. At night if the temperature varies, the person does not change the speed. The fan will automatically change the speed according to the room temperature. The wastage of electricity will reduce because of this concept.

[03/2018] **Home Security System**

This is a system that when a person reaches the coverage area a flash strikes him and it rings the alarm.

VOLUNTEERING

[05/05/2021] **Environmental Protection Campaign** Anuradhapura

Joining hands with Ecoprotectors to protect the environment.

[22/01/2020] **Beach Clean Up Campaign** Galle

Joining hands with Sealife organization for beach clean up campaign.

[11/02/2019] **Blood Donation Campaign** Anuradhapura

Organized a blood donation campaign to support ministry of health.

[21/06/2018] **Little Hearts Donation** Colombo

Initiate the campaign with the support of Sri Lankan college of paediatricians to gather funds to construct the Lady Ridgeway Hospitals Cardiac and Critical Care Complex which will allow the hospital to provide timely treatment to all of our children in need.