

Bogoda Arachchige Sameera Sandaruwan

Delfgauw, The Netherlands

☎ (+31) 68-723-7298 | ✉ bassandaruwan@protonmail.com | 🌐 ssandaruwan | 🇳🇱 VISA status : Zoekjaar Valid until 30-05-2021

Authorized to search and freely work in the Netherlands.

Summary

A Curious and motivated graduate student with experience in robotic perception, deep learning, and control theory looking to apply that experience in the field of intelligent autonomous systems, through PhD study with an expert at a remarkable institution. I have used my M.Eng. thesis to research a collaborative controller between a drone and a mobile robot and my M.Sc. thesis to research a neural network based visual odometry system for drones.

Skills

Fields Control Systems, Deep Learning, Computer Vision, Electronic Engineering
Languages C/C++, Python, MATLAB, Java
Frameworks ROS, OpenCV, PyTorch, Keras, Git

Education

M.Sc. in Artificial Intelligence (Specialisation Robot Cognition)

Nijmegen, The Netherlands

Radboud University

January 2018 — April 2020

- Thesis topic: Frame-to-Frame ego-motion estimation for agile drones with Convolutional Neural Network ([link](#))
- Thesis was conducted in association with **MAVLab**, Faculty of Aerospace Engineering, Delft University of Technology

M.Eng. in Electrical and Electronic Engineering (First Class Honours)

Malabe, Sri Lanka

Sheffield Hallam University, UK. Conducted by Sri Lanka Institute of Information Technology

January 2013 — March 2017

- Thesis topic: A Quadcopter with Automated Take-off And Landing on Mobile Robot Platform ([link](#))
- 3rd Year Project: FPGA Based Real Time Eye Tracking System ([link](#))

Experience

Co-founder & Research and Development Engineer

Galle, Sri Lanka

Ceymoss Technologies (Pvt) Ltd

September 2016 — January 2018

- Development of Bellpepper Restaurant Management system for easy restaurant management.
- Developed embedded systems for factory automation and Remote Preventive Maintenance.

Electronic Engineer

Moratuwa, Sri Lanka

Erbenlab LLC

January 2016 — June 2016

- Team leader of the Internet of Things division. Managed a team of three colleagues.
- Gained hands-on experience and knowledge in developing IoT devices for factory automation.

Internship - Electronic Engineer

Biyagama, Sri Lanka

Hitech Solutions (Pvt) Ltd

October 2014 — January 2015

- Gained expertise knowledge and hands on experience in analog electronics and how to used them to solve practical problems.
- Designed a Car battery charger to charge ten Lead-Acid batteries simultaneously.

Extracurricular Activity

Team Member

Netherlands

MAVLab AlphaPilot team

September 2019 - December 2019

- Lockheed Martin AI Drone Racing Innovation Challenge 2019 ([link](#))
- Helped the team with training the Neural Network used for Gate detection

Mentor

Radboud University, Netherlands

International Orientation Week

Aug. 2018 and Feb. 2019

Helped new coming international students in getting accustomed to the university environment.

Participant

SLIIT, Sri Lanka

IEEEExtreme Programming Competition

2014 and 2015

IEEEExtreme is an annual international 24-hour hackathon

Participant

IEEE Electronic Design Competition

Teams of IEEE student members complete an electronic circuit design task within 8 hours.

SLIIT, Sri Lanka

2014

Awards and Honors

2014 **2nd Place**, SAIMT Robotic Challenge

Malabe, Sri Lanka

Leadership opportunities

2019-2020 **Member**, Radboud University Unibuddy program

Netherlands

2015 **Batch representative**, M.Eng. batch of Electrical and Electronic Engineering at SLIIT

Malabe, Sri Lanka

2015 **Assistant Secretary**, IEEE student branch of SLIIT

Malabe, Sri Lanka

2014 **Event Organizer**, IEEE student branch of SLIIT

Malabe, Sri Lanka

2013 **Member**, IEEE student branch of SLIIT

Malabe, Sri Lanka

2011 **Member**, Science Union, St. Joseph's College, Colombo 10

Colombo, Sri Lanka