Bogoda Arachchige **Sameera Sandaruwan**

Delft, The Netherlands

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Summary

Detail-oriented Embedded Hardware Engineer with 3 years of experience in designing digital & analog hardware, power supplies, and routing PCBs, interested to create innovative and reliable solutions by using state-of-the-art technologies.

Skills

Software	Eagle CAD, LTSpice
Engineering	Schematics, PCBA, Layout and Routing, IPC standards
Fields	Analog and Digital circuit design, Power electronics, Flex-Rigid PCB design
Protocols	UART, I2C, SPI, CAN
Microcontrollers	Microchip, STM32 (ARM)
Languages	C/C++, Python, MATLAB, VHDL, Verilog

Experience

Embedded Software & Hardware Engineer

Rotterdam, The Netherlands

TEST-OK B.V.

August 2020 - present

- Designed, implemented and tested modules for functional testing systems of circuits boards.
- Furnished engineering team support as needed.
- Experience in power electronic design.
- Experience in Flex-Rigid PCB design.
- Experience in developing high precision circuits for testing and measurement systems.

Co-founder & Research and Development Engineer

Galle, Sri Lanka

Ceymoss Technologies (Pvt) Ltd

September 2016 — January 2018

- Developed a Wifi and vibration sensor based factory monitoring systems that interfaced the ERP systems.
- Designed a IoT based Remote Preventive Maintenance system with temparature and light sensors.
- Developed a Restaurant Management system with multi-tablet, KOT and POS capabilities. *(link)*.

Electronic Engineer

Moratuwa, Sri Lanka

Erbenlab LLC

January 2016 — June 2016

- Team leader of the Internet of Things division.
- Developed RFID based package tracking system for production line.

Electronic Engineer

Biyagama, Sri Lanka

Hitech Solutions (Pvt) Ltd

October 2014 — January 2015

- Experience working with analog electronic system design.
- Designed and implemented a lead-acid battery charger with multi-stage charging capabilities during the internship duration.

Education

M.Sc. in Aritifical 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)*

Extracurricular Activity

Team Member

Netherlands

MAVLab AlphaPilot team

September 2019 - December 2019

- Lockheed Martin AI Drone Racing Innovation Challenge 2019 *(link)*
- Contributed as a team member 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*

IEEEXtreme Programming Competition *2014 and 2015*

IEEEXtreme is an annual international 24-hour hackathon

Participant *SLIIT, Sri Lanka*

IEEE Electronic Design Competition *2014*

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

Awards and Honors

2014   **2nd Place**, SAITM 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*