



# LAHIRU ALAHAKOON

## PROFILE

A self-learning graduate of Electronics Engineering who is willing to work in challenging environments, seeking an opportunity to improve research skills in Software, Electronic Designs. An individual who is open to growth and continuous learning.

## CONTACT

PHONE:  
+94 71 900 6010 | +86 1325 9891 259

LINKEDIN:  
<https://www.linkedin.com/in/lahiru-alahakoon/>

EMAIL:  
[sadaruwanalahakoon1997@gmail.com](mailto:sadaruwanalahakoon1997@gmail.com)

PERSONAL WEB:  
<https://www.lahirualahakoon.com/>

## SKILLS (TECHNICAL)

- **Languages** :  
C++ / PLC / Verilog
- **Familiar Platforms** :  
Linux, Microsoft Windows
- **Familiar Software Packages** :  
Proteus | MPLab | MATLAB |  
EAGLE | INVENTER | FUSION 360 |  
Vivado |
- **Embedded Systems** :  
CNC Router | 3D Printer
- **Automation System** :  
Industrial 4.0
- FPGA Development
- Design & implementing Electronic Circuits

## WORK EXPERIENCE

**Lab Assistant – Xidian University**  
(August 2023 – Present)  
School of Optoelectronic Engineering

**Visiting instructor – ITUM**  
(December 2022 – June 2023)  
Visiting instructor with two months of experience.

**Teaching Assistant – SRI LANKA TECHNOLOGICAL CAMPUS**  
(February 2022 - June 2023)  
Teaching assistant with one year of experience.  
Delivered Tutorial supervised practical labs.  
Skilled in research and materials development.

**Director – CEYLON CUSTOM DESIGNS (PVT) LTD**  
(April 2020 – Present)  
Founder CEO of Ceylon Custom Designs, which provides automation services.

**Trainee Engineer – E-City Network (PVT) Ltd**  
(October 2020 – April 2021)  
Served as a training electronic engineer during the internship period.

**Trainee Engineer – Sri Lanka Ports Authority Colombo**  
(August 2020 – October 2020)  
Served as a training electronic engineer during the internship period.

## EDUCATION

**SLTC RESEARCH UNIVERSITY, Sri Lanka**  
2017-2021  
B.Tech Hons in Electronics 2016 – 2021 - CGPA: 3.68 | 4.00  
**Xidian University, China**  
2023 – 2026  
Master's degree in Optical Engineering

## AWARDS

- Winning the Performance Award - Innovation in International Research conference Sri Lanka 2022
- 3<sup>rd</sup> place TECHNOBOTS 2018 ROBOT BATTLE
- 4<sup>th</sup> Place at UWU ROBOT BATTELES EXTRA EDITION 2019
- 2<sup>nd</sup> place TECHNOBOTS 2019 ROBOT BATTLE
- 4<sup>th</sup> Place in SLT ROBOT BATTELES EXTRA EDITION 2019

## INTERPERSONAL SKILLS

- Proficient in planning and implementation of engineering projects.
- Able to work unsupervised and learns fast with creativity.
- Collaboration and Teamwork.
- Adaptability and self-motivation.

## VOLUNTEER EXPERIENCE

- **Officer of the Publicity**  
**Department of the**  
**International Student Union at**  
**Xidian University 2023/2024**
- **Leader of Robotic Team**  
**| 2017 – Present |**  
Robot Battles Sri Lanka  
(Nemesis)
- **Project Chairman LETHALBOTS 2022**  
Inter university Robot Battles Sri Lanka

## REFEREES

Dr. Udes S. Oruthota  
Director, Senior Lecture,  
Sri Lanka Technological Campus.  
E-mail - udesho@sltc.ac.lk

Dr. Nandika  
Nandika Prasadani Miguntanna  
Head of School of Technology,  
Senior Lecturer  
Sri Lanka Technological Campus.  
E-mail - nandikam@sltc.ac.lk

## PROJECTS

- ❑ **Designed a 3D Printer to Manufacture Large Scale Three Dimensional Objects (Final Year Project)**  
🔗 <https://github.com/Lahiru-Sadaruwan/FYP>  
The main scope of this project was to design a prototype 3D printer and a material for the construction industry and it critically reduced production time and saved a lot of production costs on material. This production process suggests a range of advantages matched to modern manufacturing methods.
- ❑ **Large Bed Size 4D R CNC Wood Carving Machine**  
🔗 [https://github.com/Lahiru-Sadaruwan/4d\\_CNC](https://github.com/Lahiru-Sadaruwan/4d_CNC)  
CNC wood carving machine, suitable for cutting various shapes on various materials such as steel, wood, plastic, etc.
- ❑ **Industry 4.0 Automation Factory**  
🔗 <https://github.com/Lahiru-Sadaruwan/IOT>  
Automating a factory in Moratuwa, Sri Lanka using the industrial 4.0 method.
- **Smart Garbage Monitoring System**  
🔗 <https://github.com/Lahiru-Sadaruwan/-Smart-Garbage-Monitoring-System>  
Information management system for waste management and a geo model for site selection process are the main factors of this study. Information management system will give a proper solution to conduct the daily work routines of the waste management site in efficient and effective manner. Usually manual work on a daily work routines are at some point turned out to be repetitive and also difficult to retrieve and analyze information and takes time in actual practice.
- **Digital Stethoscope**  
🔗 <https://github.com/Lahiru-Sadaruwan/Digital-Stethoscope>  
The purpose of this project was to design a digital stethoscope and patient can check individual health of patient and he/she can have some health problem detected in cardiac murmurs and compare output wave form and earlier recorded healthy person wave form to patient and give a message to him or her.
- ❑ **3 Axis CNC Machine**  
🔗 <https://github.com/Lasitha-Jayawardana/My-CNC>  
It can be used for 3D printing, PCB drilling and Drawing purposes. It has each 10 inches 3 movable axis.
- ❑ **Fighting Robot for SLTC Battlebots 2018/2019**  
It was designed to fight with another robot on an arena using a weapon. It contains a metal roller as the weapon and a brushless motor is used to rotate the metal roller.