Sandaru Gaurange

D.O.B. - 2002/06/28
Colombo, Sri Lanka.
+94 703955139
sandaru28gaurange@gmail.com
https://www.linkedin.com/in/sandaru-gaurange-914353252/

Summary:

Recent Mechatronics and Automation Engineering graduate seeking a challenging career opportunity to apply my knowledge, skills, and passion for innovation in the field of Mechatronics and Autonomous Systems.

Education:

BEng (Hons) Mechatronics and Autonomous Systems | Liverpool John Moores University

Through ICBT Campus
(May 2022 - July 2023)

Throughout my Mechatronics Engineering bachelor's program, I delved into several key areas that have significantly shaped my expertise. The program equipped me with the skills to enhance the efficiency of automated systems, understand and control dynamic systems, and effectively manage real-time processes. Additionally, I explored the fascinating realm of Autonomous Systems and Machine Learning, which opened doors to creating intelligent machines. My coursework in Industrial Management provided valuable insights into project planning and resource allocation. This comprehensive exposure has honed my abilities and knowledge, preparing me to excel in various technical projects.

Higher Diploma in Mechatronics Engineering | Liverpool John Moores University

Through ICBT Campus
(May 2020 - May 2022)

Through my Higher Diploma, I gained a solid foundation in digital and analogue electronics, engineering materials and manufacturing processes, principles and applications of microcontrollers, programmable logic controllers and industrial automation, fundamentals of mechanics and electrical circuits, and programming concepts. I developed my analytical and problem-solving skills by studying control system, signals and systems, analytical mathematics, engineering economics, engineering CAD, digital signal processing, electrical machines and drives, mechanical principles and dynamics of machines, and industrial robotics.

Foundation for Engineers | ICBT Campus
(May 2019 to May 2020)

Diploma in Information Technology | Esoft Metro Campus
(2019 Jan - 2019 April)

Diploma in English | Esoft Metro Campus
(2019 Jan - 2019 April)

GCE Ordinary Level | Central College Piliyandala
(December 2018)

Work Experience:

Intern at Orel Corps R&D | Health and Education
(July 2022 to December 2022)

- Collaborated on the construction of a Webduino Bit-controlled car using Arduino, contributing to its development.
- Assisted in testing the capabilities and applications of Webduino Bit and its sensors under guidance.
- Implemented an IoT-based system to collect real-time data on temperature and soil consistency using Webduino Bit.
- Documented project processes comprehensively, ensuring accessibility for educational purposes.
- Contributed to the preparation of project proposals and project reports as requested.
- Conducted assessments of returned Raspberry Pi-based low-cost computers, examining both hardware and software conditions.
- Conducted research to identify required devices and established communication with relevant organizations to gather essential project data.
- Played a role in the design of a School Bus Project, featuring live location tracking and enhanced security for children, as well as contributing to the mobile application's user interface design.

Skills :

- Literature Review and Research Analysis
- Flexibility and Adaptability
- Effective Communication (English)
- Innovative Problem Solving
- Prototyping and Product Development

- TensorFlow
- Python
- IOT
- IBM SPSS
- C#,C++,HTML
- Java