



PERSONAL

Dineth Sandeepa Keerthi

Nationality: Sinhala

1998

AREAS OF SPECIALIZATION

- PCB Designing and Soldering
- Tools (MATLAB, AUTO CAD, Proteus, Photoshop, Inventor, Fusion 360)
- System Automation (PLC, Arduino)
- Programming (PLC, Raspberry)
- Microsoft Corporations software
- SOLIDWORKS Designing
- Assembling (Automobile, Industrial Automation)
- 3-D Printing, CNC & laser Cutting.

INTERESTS

- AI Based Technologies
- Automobile Engineering
- Computer networking
- Designing
- Automobile Engineering
- Robotics Engineering
- Industrial Automation

SOFT SKILLS

- Team Work
- Quick Learning
- Problem Solving
- Good Communicating
- Self motivated

LANGUAGE

- Sinhala (mother language)
- English

Dineth Sandeepa

MECHATRONICS ENGINEER

A motivated engineering graduate seeking a full-time position to advance my engineering career and apply my passion for innovation and problem-solving. Excellent communicator with a strong ability to be detailed, analytical, and collaborate effectively. Ready to expand my knowledge and contribute to cutting-edge projects to make a meaningful impact and gain hands-on engineering experience. Committed to growth and eager to excel in a dynamic engineering environment.

EDUCATIONS

2020 - 2024

SLTC Research University, padukka.

BSc.(Hons) in Mechatronics Engineering

Main subjects covered: Electromagnetism and Optics, Material Science, Praxis III/I (Designing Grid following robot and picking and placing robot arm), Engineering Mechanics, Workshop Technology, Engineering Drawing, Signals, and Systems, Manufacturing Processes, Electrical Circuits, Applied Mathematics Laboratory, CAD/CAM, Digital Logic Circuit Design, Electronic Circuits, Engineering Thermodynamics, Embedded Systems, Control Theory, Advanced Electronics, Digital Electronics, Electromechanical Machine Design, Computer Systems Architecture, Fluid Mechanics, Power Electronics Applications and Designs, Mechatronics Engineering Design, Electrical Machines and Drives, Contract Administration and Industrial Law, Mechanical Vibration, Industrial Control System, Industrial Electronics, Robotics Engineering, Maintenance Management.

2019

SIRISAMAN M.M.V ,Deraniyagala.

G.C.E. A/LEVEL

Combined Mathematics - C

Physics - C

Chemistry - S

2014

SIRISAMAN M.M.V ,Deraniyagala.

G.C.E. O/LEVEL

8A1S

CERTIFICATIONS

2022 (4 months)

SLIR Academy, Pannipitiya.

Robotics and industrial automation course.

PCB Design.

Microcontroller Programming.

Industrial Automation.

IoT and web development.

2021

SLTC Research University, padukka.

ROAD TO CODEMANIA.

PYTHON Programming.

PROGRAMMING



ACTIVITIES

- Designing, developing and printing "3D-printed parts".
- Engaged in developing a fully Automatic laser cutting machine.
- An automatic temperature control and drying chamber is being designed and developed.

CURRENTLY LEARNING

- Python programming
University of Moratuwa (CODL).
- Diploma in IT
ESOFT Metro Campus.

CONTACTS



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WORK EXPERIENCE

- **2024 Jan (6 months)**
Inqube Global (Private)Limited.
AUTOMATION ENGINEER (Intern)
- **2023 Oct (3 months)**
SLINTEC (Sri Lanka Institute of Nanotechnology (PVT)LTD.
MAINTENANCE ENGINEER (Intern)

PROJECTS

- **Label Attaching Machine Automation and Development Project for Inqube Global (PVT)LTD.**
"JUKI AMS 221EN Pattern Sewing Machine" automated for attaching labels using "XINJE XD3" PLC as per the requirement of "Lululemon".
- **Home automation Project - (IOT Based).**
Created a website and connect the electronic components in the home using the microcontrollers, which can automatically control the house.
- **APB-12MTDL PLC Based Heat press Machine Automation.**
Heating bed control using PLC and pneumatic actuators.
- **AC Servo motor-based Tested Conveyor belt sorting system for the industrial production line.**
Coded the conveyor unit and pneumatic actuators, functioned and tested the using objects.
- **FEM54 Sensor-based industrial liquid Filling System.**
coded for the system to fill a station from one other station identified the liquid limit, heat treatment and it is poured into the cup which was controlled to travel in the conveyor belt.
- **Grid following robot with pick and place robot arm.**
Arduino / PID controller.
- **Designed, Assembled, and controlled wire inserter machine for Inqube Global (PVT)LTD.**
Created an automated machine for wire inserter machine using a stepper motor and PLC, pneumatic cylinder, and Arduino microcontroller.
- **AUTOMATED PHARMACEUTICAL SORTING SYSTEM**
Currently working on the project as this project is for the final year project of the degree currently following.
- **Forecast evaluation for Automation projects profit-saving (for Inqube Global (PVT)LTD).**
Research and forecast past, present, and future automation projects.

REFEREES

Dr.B.G.D.A Madushanka
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