Chief Delaney Blessings Garikayi

Email: delaneygarikayi@gmail.com

Gender: Male **Date of birth:** 27/07/2003 **Nationality:** Zimbabwean

ABOUT MYSELF

Mechatronics Engineering student at Kalinga Institute of Industrial Technology (KIIT), India, with a strong foundation in industrial automation, robotics, and digital twin technologies. Experienced in **Digital Twin Prototyping, PLC programming, and hardware-software integration**. Gained hands-on experience in Virtual Commissioning during my 2024 internship at Xcelgo by Schneider Electric in Ry, Denmark, where I developed and deployed didactic digital twin prototypes for universities in Germany and Denmark. Passionate about solving engineering challenges through innovation and eager to apply my skills in a professional setting while continuously learning and adapting.

WORK EXPERIENCE

Schneider Electric https://xcelgo.com/

City: Ry | **Country:** Denmark | **Email:** info@xcelgo.com | **Name of unit/ department:** Schneider Electrics Digital Twin Competency Centre | **Business/sector:** Manufacturing

Link https://zouaczw-my.sharepoint.com/:w:/g/personal/p1882912c_students_zou_ac_zw/EbX85TJF7EVBmRTTTkRyEYBhTvfqlmB5rdUCoqnue1XPw?e=tFTygG

[20/05/2024 – 15/08/2024]

Automation Solutions developer

Key Responsibilities

- Visiting customers (Denmark Technical University) to deploy Digital Twin prototypes for didactic purposes.
- Fixing bugs in Digital Twin software (Experior and EcoStruxure Machine Expert Twin).
- Managing relationships remotely with university professors in Germany (Hannover Fachhochschule) and DenmarK (DTU)
- Performing solid modeling and PLC programming for custom setups for Universities.
- Playing padel every Wednesday.

EDUCATION AND TRAINING

[27/07/2022 – Current]

Bachelors in Mechatronics Engineering

Kalinga Institute of Industrial Technology https://kiit.ac.in/

City: Bhubaneswar | **Country:** India | | **Final grade:** CGPA - 8.8/10

Key Courses:

- Control Systems
- Industry 4.0 (Digital Twin, Robotics, AI)
- Industrial Automation
- Design and Solid Modelling
- Kinematics and Dynamics of Machines
- PLC Programming

Key Projects:

- **Digital Twin Modelling of a Robotic Arm using Simscape (Ongoing)** -Developing a real-time virtual model of a robotic arm in MATLAB Simscape to simulate motion and control.
- **Design of a Line Following Robot**: Developed a robot capable of autonomously following a predefined path using sensors and simple algorithms.

- **Design and Implementation of a Pill Extractor**: Engineered a mechanical system to automate the extraction of pills from containers.
- **Design of a PCB CNC Plotter for Small-Scale Manufacturers**: Designed a low-cost CNC plotter for PCB manufacturing tailored to small businesses.

[14/06/2024 – 14/08/2024]

Software Design Patterns (Online Course Provided By Schneider Electric)

University of Alberta https://www.coursera.org/account/accomplishments/verify/I82NTZYDD3OT

City: Ry | **Country:** Denmark | | **Level in EQF:** EQF level 2

Core Skills Gained

- Software Architecture
- Computer Programming
- Programming Principles
- Problem Solving
- Software Engineering

[05/06/2024 – 05/08/2024]

Fundamental Skills in Engineering Design (Online Course Provided By Schneider Electric)

University of Leeds https://www.coursera.org/account/accomplishments/verify/LBMFYYNGBUVF

City: Ry | **Country:** Denmark | | **Final grade:** 90% | **Level in EQF:** EQF level 1

Core Skills Gained

- Problem Solving
- Requirements Elicitation
- Engineering Design

LANGUAGE SKILLS

Mother tongue(s): English **Other language(s):** German (Elementary)

SKILLS

Azure DevOps | Professionnal email communication | Efficient Internet Navigation | Microsoft Office | Basic Troubleshooting Skills

Technical and Advanced Skills

Digital Twin Technologies | Programming (C#, Python) | CAD (Solidworks, Autodesk) | Simulations (MATLAB, Simulink) | Robots Operating System (ROS) | PLC Programming(TIAPortal, Codesys)