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Nazir Louis

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Project Portfolio: NazirLouis.com

OBJECTIVE: I am a dedicated Engineer who is skilled in Mechatronics, Robotics, and Software. I have a passion for learning and solving problems that might seem unsolvable, I am looking for an opportunity where I can help make an impact as well as learn and grow as a person and Engineer.

EDUCATION:

Bachelor of Science in Mechanical Engineering, *Georgia Southern University, Statesboro, GA - July 2021*

SKILLS:

Certifications: Mechanical Design Solidworks
Programming Languages: Python, JavaScript, C++, Ladder Logic, Structured Text, Arduino
Computer Application & Technical Skills: Machine Learning: *Tensor Flow/YOLO*, Computer Vision: *OpenCV*, Raspberry Pi, Arduino, ANSYS Workbench, MATLAB, Programmable Logic Controllers/PLC, GUI(Graphical User Interfaces)

WORK EXPERIENCE:

The Home Depot | Test Engineer
September 2021 – Present

- Generated over 1.1 million in savings in the 2021 Business Year.
- Created multiple automated test fixtures using machine learning, computer vision, and analog or digital sensors which allowed testing to run safely 24/7 with minimal maintenance.
- Worked Closely with Product Engineers and Senior Product Engineers to come up with testing methods as well as give quality input based on post-test results.
- Provided significant expertise in developing a range of engineering solutions to improve the testing of new and existing D25H and D29B Home Depot products.
- Programmed various different types of controllers (Raspberry Pi, Arduino, PLC) using a variety of languages like Python, C++, and Ladder Logic based on the best use case.

The Home Depot | Test Engineering Technician
July 2021 – September 2021

- Worked with Test Engineers to find the best means to test products that would provide the most meaningful information.
- Performed tests such as tensile, abrasion, corrosion, UV weathering, hardness, etc.
- Created custom fixtures in order to test the life cycle and quality of products that could not be tested with current lab equipment.
- Tested products per ASTM/ASME/ISO standards to ensure they meet the metrics of the manufacturer when performing testing.
- 3D modeled as well as printed custom parts to use with current or new testing equipment.

Georgia Southern University | Programming Team Leader
May 2021 – July 2021

- Successfully led a team of programmers and engineers to complete a goal on an accelerated timeline.
- Created a detailed plan on taking an initial concept through the engineering design process.
- Developed a program in C++ and Python using OpenCV that allowed any image uploaded to PLC to be replicated by waterfall image.
- Set up a Programmable Logic Controller and handled circuitry for I/O modules, water pump, solenoid, etc.

Broadway Builder |Autocad Designer
December 2018 – January 2020

- Worked in a fast-paced team environment.
- Created complex floor plans on multiple large-scale projects using AutoCAD.
- Used high-powered machinery to help with daily tasks.
- Arranged and stored materials, machines, tools, and equipment.