

Nazir Louis

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GitHub: github.com/Nlouis38 |

Project Portfolio:

NazirLouis.com

OBJECTIVE: I am a dedicated Software Engineer who is skilled in Mechatronics and various programming languages. 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 learn and grow as a person and Engineer.

EDUCATION:

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

SKILLS:

Certifications: Mechanical Design Solidworks

Programming Languages: Python, JavaScript, C++, Ladder Logic, Structured Text, Arduino

Computer Application & Technical Skills: Machine Learning: *Tensor Flow*, Computer Vision: *OpenCV*, Raspberry Pi, Arduino, ANSYS Workbench, MATLAB, Programmable Logic Controllers/PLC, PySimpleGUI

WORK EXPERIENCE:

The Home Depot | Automation Software Engineer

July 2021 – Present

- Generated over 1.1 million in savings in the 2021 Business Year.
- Created multiple automated test fixtures using machine learning and computer vision which allowed testing to be completed 3-8 times faster while also freeing up engineers to work on other projects.
- Programmed various different types of controllers (Raspberry Pi, Arduino, PLC) in order to create automated machinery.
- Provides significant expertise in developing a range of engineering solutions to improve the manufacturing of new and existing Home Depot products.
- Interpret quality data for validation of customer specifications to create more reliable and durable products.

Georgia Southern University | Programming Team Lead

May 2021 – June 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.

RESEARCH & PROJECTS:

Georgia Southern University | Student Team Lead

August 2020 – December 2020

- Using a Jetson Nano as a controller created an autonomous vehicle that was able to detect and avoid objects.

308 Shyre Lake Lane
McDonough, Georgia 30253

- Created 3 different milestones to set goals and deadlines for the team to follow.
- Created a program in Python that allowed object detection and avoidance using the front camera.

Georgia Southern University |
Student Team Lead January 2021

– May 2021

- Worked with molten aluminum to create metal castings.
- Designed molds using Solidworks and took account for gating ratio and riser placement.
- Used high-powered equipment for post procession including but not limited to mills, lathes, power saws, etc.