**Emeka I Ariwodo, EIT**

[Eariwodo98@gmail.com](mailto:Eariwodo98@gmail.com) | [github.com/ciariw](http://github.com/ciariw) | [www.linkedin.com/in/emeka-ariwodo-/](https://www.linkedin.com/in/emeka-ariwodo-/) (713) 252-7325

**EDUCATION**

**University of Houston,** Cullen College of Engineering,Houston, TX

**Bachelor of Science in Mechanical Engineering Dec 2020**

**Minor:** Mathematics

**SKILLS**

**Languages and Frameworks:** Python/Jupyter, C++, Java, JavaScript, MATLAB, Selenium, SQL, Git

**Manufacturing and Design:** Autodesk Inventor, SolidWorks, AutoCAD, Sysmac Studio

**WORK EXPERIENCE**

**Hanwha Q-Cells – Equipment Engineer Aug 2021 – Present**

* Responsible for diagnosing and repairing malfunctioning equipment to keep up with daily production targets
* Coordinate with engineers and technicians to find the root cause of defects in a fast-paced environment
* Prepare and present SOPs, manuals, and monthly KPI reports for meetings
* Troubleshoot complications with machine hardware, and PLC using both Sysmac Studio and the HMI
* Provide technical support and instructions to other Engineers, Technicians, and Operators

**PROJECTS**

**LinkedIn Scraper (Python) Feb 2022 - Present**

* Wrote software that gathers information on publicly available LinkedIn profiles and saves that data to a JSON file
* Added features for collecting names, job titles, and prior employers of “connections” of a given account, as well as collecting job postings, titles, and locations for a selected company

**Q-Cells data Scrapers (Python) Dec 2021**

* **S**aved 6+ hours by automating away the need to manually search, add and compare instances of downtime
* Implemented and tested ETL software that uses multiple Python libraries (Selenium, openpyxl, and the PyQt framework)
* Given a month, year, and machine, the script downloads and searches through the work logs for each day of a selected month, or up until the current day of the present month, and then stores relevant information on a formatted excel sheet
* Version control using Git
* Added a function that grabs data from our MES of material cycle count and lifespan to improve root cause analysis and assist with parts management

**3D Printing Projects Nov 2020 - Present**

* Assembled, calibrated, and upgraded an FDM cartesian 3D printer for prototyping
* Designed, tested, and installed a modular treadmill mount meant to hold a phone or tablet
* Developed a website using Bootstrap and vanilla JavaScript that accepts STL files and returns a quote for the print cost of a given part

**NOV - Fiberspar Manufacturing,** Houston TX **Aug 2019 - May 2020**

* Developed a tensioning system whereby the company saved over 60 feet of pipe material per production cycle
* Prepared a design matrix to determine the components needed for the project
* Maintained documentation of milestones and deliverables
* Ensured that each component of the project complied with ASME’s guidelines for an acceptable safety factor using CAE