

# EFOSA OGIESOBA

## RELIABILITY ENGINEER

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## SUMMARY

I'm currently seeking new opportunities. I recently completed a Northwestern Coding Certification Program, and acquired & increased proficiency in the following skills - **HTML5, CSS3, JavaScript, jQuery, Bootstrap, Express.js, React.js, Node.js, Handlebar.js, MongoDB, MySQL, Command Line, Git, and Python**. I am also proficient in industrial & conceptual designs; my experience ranges from CAD designs, Product designs, Pipeline Designs, to Automotive designs. I truly have a passion for taking on fun, exciting, and challenging new projects.

## SKILLS

**CODING:** HTML5, CSS3, Javascript, jQuery, AJAX, Bootstrap 3, React.js, Matter.js, Anime.js, Node.js, Express.js, Sequelize, MySQL, MongoDB, Git, Python  
**CAD:** SolidWorks, AutoCAD, SketchUp  
**COMPUTER:** MS Office Suite, Visual Studio Code, Adobe Photoshop, Adobe Illustrator, SAP, MS Project

## EDUCATION

**Northwestern University**  
Certification Coding 2018  
Graduate of Accelerated Coding Certification Program. Acquired programming skills needed for frontend and backend development.  
**Purdue University**  
B.S. Mechanical Engineering 2013

## EMPLOYMENT

**Applied Acoustics International® (AAI™)**  
*Reliability Engineer*  
Greater Chicago Area  
Mar 2016 to Oct 2017

- Developed new CMMS website for employees using Google Sites, and Google Sheets as Database.
- Designed Air Knife Blower System to replace compressed air drying system for production line; ~\$10k annual savings.
- Designed 5000gal Stainless Steel Water Recirculation Tank; created PFD for tank using AutoCAD-LT 2017.
- Designed Surface Winder Machine used to wrap up product during production process.
- Created PM Program for maintenance department.
- Designed concept and detailed CAD models/drawings for capital projects using SketchUp.
- Prepared Bill Of Materials for capital projects using MS Excel.
- Supervised contractors & mechanics during installation of capital design projects.
- Worked with outside vendors/suppliers to acquire critical parts (pumps, motors, etc), and materials for plant processes.
- Managed Lubrication Program for all equipment in facility.
- Updated general Facility PFD (Process Flow Diagram) drawings using AutoCAD-LT 2017.
- Performed routine Purchase Orders and JIT orders, using SAP.
- Updated & Created AutoCAD drawings in RFQ process to meet design constraints & specifications.
- Provided monthly Reliability Reports to maintenance department and senior management.

**Eco-Services Operations, LLC**  
*Reliability Engineer*  
Greater Chicago Area  
Mar 2014 to Jan 2016

- Created Root Cause Failure Analysis (RCFA) Reports.
- Designed concept and detailed CAD models/drawings for capital projects using SketchUp.
- Designed, developed, and implemented new acid piping system to incorporate a new acid strength sensor & flow meters.
- Utilized ultrasonic thickness gauge to take thickness readings on piping, and tank nozzles as needed.
- Provided monthly motor vibration reports used to support Predictive Maintenance Program.
- Supervised contractors, mechanics, and electricians during installation of capital design projects & plant outages.
- Worked with outside vendors/suppliers to acquire critical parts and materials for plant processes.
- Managed Lubrication Program for all plant equipment.
- Performed routine Purchase Orders using SAP.
- Updated Standard Operating Procedures and P&IDs.
- Maintained/Updated plant wide equipment records to meet equipment strategy best practices.

## PROJECTS

**Cannon-Man**  
Feb 2018 to Feb 2018  
Cannon Man is a fun and exciting 2 player shooting game inspired by the classic Flash game Bowman. The object of the game is to be the first one to shoot down your opponents cannon and you win. This game was built as a school project to further increase experience with jQuery, Bootstrap, Matter.js, Firebase, and Jasmine; all of which was completed within an agile environment where our team would perform daily sprints as we developed the game.

**Google Chrome - Bookmark Extension**  
Feb 2018 to Mar 2018  
Bookmark Extension is a chrome extension built using Javascript, HTML 5, CSS 3, Bootstrap 3, Express.js, Node.js, Sequelize, and MySQL. This application makes a database copy of your Google Chrome bookmarks and organizes them in a personal library. From the library you can search for a Bookmark by its title, access a bookmark's web page, create folders, assign the folders to bookmarks and sort them accordingly.

**ROOMS**  
Mar 2018 to Apr 2018  
ROOMS is short for roommate-bills. This is a bill management app for roommates built with ReactJS; App will keep track of 4 main bills that are most commonly shared among roommates: Electricity, Gas, Internet, & Rent. A maximum of 3 roommates can be added for each user. Once roommates, and total bill costs are added, contribution for each roommate can be included. A total percentage contribution for each roommate towards the total bill is also automatically calculated and displayed.

**Basic Utility Vehicle (BUV)**  
Aug 2013 to Dec 2013  
Designed a Basic Utility Vehicle (BUV) for Sub-Sahara Africa. As a team of 5, we designed, built, and tested the BUV, using a front wheel drive transaxle, mounted on the rear axle, moving the engine to the front, designing parts and updating assemblies using SolidWorks. The vehicles are available at Purdue and in use in Cameroon.

**Purdue University - Department of Mechanical Engineering**  
Toy A-Fair Most Marketing Potential Award for Toy Design Course  
Dec 2012

- Created conceptual and detailed designs.
- Designed CAD model parts of toy using Pro/Engineer.
- Assembled toy using 3D printer and machine tools.
- Presented finished toy product to professors and company officials.

## AWARDS

## VOLUNTEERING

**Compassion International** · Child Sponsor  
I enjoyed sponsoring the children at Compassion through exchange of letters and pictures. The children at compassion have giving me a deeper appreciation towards life. It has also helped me to bridge the gap between different cultures.