EFOSA OGIESOBA

FULL STACK ENGINEER

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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

Projects

ROOLS Mar 2018 to Apr 2018
ROOLS 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.

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.

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 rst 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.

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.

Employment

Applied Acoustics International® (AAI™) Greater Chicago Area
Project / Reliability Engineer Mar 2016 to Oct 2017
- Developed new CMMS website for employees using Google Sites & Google Sheets as Database; Site tracks maintenance KPI data with Reports.
- 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 Preventative Maintenance 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, conveyor belts, flow meters, etc), and materials for plant processes.
- Managed Lubrication Program for all equipment in facility in collaboration with outside lubrication vendor.
- Updated general Facility PFD (Process Flow Diagram) drawings using AutoCAD-LT 2017.
- Created 8D Reports for continuous improvement; Fishbone Diagrams, and 5Y methods used in finding root cause for different failures.
- Performed routine Purchase Orders and JIT orders, using SAP.
- Updated & Created AutoCAD drawings in RFQ process to meet design constraints & specifications for automotive customers.
- Provided monthly Reliability Reports to maintenance department and senior management.

Eco-Services Operations, LLC Greater Chicago Area
Project / Reliability Engineer Mar 2014 to Jan 2016
- Created RCFA Reports, and performed FMEA for new equipment. Designed concept and detailed CAD models/drawings for capital projects using SketchUp; Supervise contractors, mechanics, and electricians during installation of capital design projects and scheduled plant outages.
- Worked with outside vendors/suppliers to acquire critical parts and materials for plant processes; Managed Lubrication Program for all plant equipment.
- Perform routine Purchase Orders using SAP; Updated Standard Operating Procedures and P&IDs; Maintain/Updated plant wide equipment records to meet equipment strategy best practices.
- Design, develop, and implement an acid piping system to incorporate a new acid strength analyzer sensor, flow meters within flow path, and provided added information access for operators to check flow rate through tank piping, and take acid samples when necessary, and Supervised and collaborated with mechanics and electricians throughout the installation of the $57K piping project.
- Work with an outside vendor to install new ramps for "loaders" to load acid onto tank cars by designing safer, easier to use, and stronger loading ramps. Previous loading ramps had a compromised mechanical integrity. They had been in use for more than 20 years and had become unsafe to operate. I conducted brainstorm design modifications on the loading ramps which enhanced loading ramp installation, use, and compatibility with the loading rack.
- Assist with the installation of a new Acid Storage Tank, supervising contractors who were installing the Acid Day tank and created thickness test drawings of Acid Storage Tank by taking field measurements, creating a tank model based of these measurements, then finally converting model into isometric dimensioned drawings with thickness test locations shown in drawing. The model continues to be used today by the company thickness testing technician.
- Lead a capital project to install a new breathing air piping system for supervisors, contractors, and all employees to utilize during plant outages for easier vessel entry. Breathing air piping system will provide easier access to breathing air stations when an employee enters "manways" on the converter (a vessel containing a catalyst that converts SO2 into SO3). Conceptual model of breathing air piping system had been started; has not been completed.
- Responsible for the removal and installation of water tube boiler bundle, handling pressure relief valve calculations, utilization of 45-ton crane, and leading contractors for removal and installation requirements.

Purdue University West Lafayette, IN
Senior ResNet Computer Consultant Jan 2011 to Dec 2013
- Solve computer issues for students of different level of computer knowledge.
- Managed a network of over 4000 student computers.

Awards

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.

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.