

# ADEFOLAOLUWAMI O. ODENIYI

1521-104 Graduate Lane, Raleigh NC 27606. (678) 665-7217. odeniyifolami3@gmail.com

A self-motivated and innovative Mechanical Engineering graduate student, seeking an engineering internship position where I can use the theories and understanding of physical principles acquired to solve practical problems and fulfill company objectives

## EDUCATION

### MASTERS OF SCIENCE IN MECHANICAL ENGINEERING AT NORTH CAROLINA STATE UNIVERSITY MAY 2016

- Cumulative GPA: 3.57/4.00o
- Coursework: Advanced Thermodynamics, Finite Element Analysis, Advanced Air-conditioning Systems, Heat Transfer Theory and Applications, Fluid Dynamics of Combustion, Mechanics of Composite Structures, Foundation of Fluid dynamics

### BACHELOR OF ENGINEERING IN MECHANICAL ENGINEERING AT UNIVERSITY OF ILORIN, NIGERIA JUNE 2012

- Coursework: Thermodynamics, Air-conditioning Systems, Fluid Mechanics, Engineering Communication, Statistics

## WORK EXPERIENCE

### GRADUATE RESEARCH ASSISTANT AT INDUSTRIAL ASSESSMENT CENTER AT NCSU, RALEIGH MAY 2015-PRESENT

- Visit small to medium size manufacturing plants in North Carolina, South Carolina and Virginia to perform audits on various equipment such as HVAC systems, compressors, lighting, boilers, chillers and heaters
- Work with a team of research students to develop ideas for energy conservation measures
- Write technical reports and give recommendations of improved energy conservation methods to help reduce the plant expenditure

### TECHNICAL AND QUALITY CONTROLLER AT EXITFIRE LTD, NIGERIA JAN 2014-JUNE 2014

- Led a team of qualified technicians in designing and installing fire suppression systems in office and residential buildings and masterminded the maintenance of the systems
- Applied interpersonal skills with customers and team members to complete projects
- Used AutoCAD and CHEMETRON software to design Projects to be executed by the technicians
- Involved in filling and pressurizing FM-200 gas cylinders for fire suppression system

### INTERN AT NIGERIAN NATIONAL PETROLEUM COMPANY (NNPC), NIGERIA JULY 2011-OCT 2011

- Responsible for auditing and reconciliation of products data
- Participated in maintenance of pipelines and pumping system

### INTERN AT HONEYWELL SUPERFINE FOODS LIMITED, LAGOS, NIGERIA AUG 2010-JAN 2011

- Ensured a continuous operation of systems in the Engineering and Utilities department
- Involved in the troubleshooting and repair of faulty plant machinery
- Part of the team involved in modification of the grain storage units

## RELEVANT SKILLS

- ANSYS Mechanical APDL, Solidworks, MATLAB, eQUEST, HOBOWare
- MS Word, Excel, Power Point

## PROJECTS

### DESIGN AND CONSTRUCTION OF A PORTABLE POWER HACKSAW

- Designed and built a power hacksaw for site applications where heavy metal cutting is required
- Incorporated wheels into the power hacksaw for easy mobility
- Tested the hacksaw with various metals of different shapes and types and obtained satisfactory results

### FINITE ELEMENT ANALYSIS OF PRESSURE VESSELS

- Performed an analysis on industrial fire-suppression vessel
- Analysed a cylindrical and spherical geometry to compare the effect of the vessel shape on stress distribution

### GUI DESIGN FOR CALCULATION OF HEAT LOSSES FOR BUILDINGS IN NC

- Designed a graphic user interface with JavaScript for easy calculation of heat losses for buildings in North Carolina

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