

# Abdullah Al Buhussain

Kingdom of Saudi Arabia

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## CAREER OBJECTIVE:

As a Mechanical engineer I would like to utilize my skills and experience in a highly thriving environment to achieve the organizations goal and achieve personal growth.

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## INVENTIONS/ PATENTS

- 1- Articulating System/Device in an Air Conditioning Unit:** [April 2018]  
Redesigned an HVAC unit to increase its Energy Efficiency Ratio.
- Worked on increasing an Air Conditioner EER by redesigning the chase of the unit to increase its Air Flow while maintaining the unit's exact footprint.
    - Modified the original Fan-blade
    - Modified the condenser
    - Modified the copper pipes
    - Installed guide vanes to prevent Air flow separations
    - Designed and Installed a motion system to facilities the unit updates
    - ❖ The unit in question can be found in the following link:
      - <http://www.magic-pak.com/landing/v-series/Default.asp>
        - Note: the modifications can be applied to various units.
        - Further details can be provided upon request

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## PROFESSIONAL EXPERIENCE:

**Application Engineer at Dresser Al Rushaid Valve & Instruments Co.Ltd.** [Oct2018-present]  
(A GE Company)

- ✓ Based on Lean manufacturing/management proposed a concept to increase the Plant Production Capacity by a min. of 10%
- ✓ Focusing on reducing waste
- ✓ Cell formation
- ✓ Designing and implementing new assembly line
- Assigned the sizing of Relief valves and Safety relief valves
- Worked on project for the largest Oil and Gas companies in Saudi Arabia.
- Provided Valves Solutions for Saudi ARAMCO and Sabic on small and big Project.
- Provided Valve Solutions for Large companies overseas.

**Project COOP Engineer at Lennox International.**

- General Overview of HVAC
- Prepared and proposed concepts for their V-series Unit
- Successfully followed the instructions and the project scope
- Successfully accomplished the project scope

[Aug,2017  
– May,2018]

- Successfully redesigned the unit Chase and increased its Air-flow

### **Volunteered at The English Program for Internationals**

- Volunteered at The English Program for Internationals (EPI) to help incoming international students

[3Months,2014]

## **EDUCATION**

### **UNIVERSITY OF SOUTH CAROLINA, Columbia, SC**

- ✓ **Bachelor of Science in Mechanical Engineering,** [2014-2018]
  - Nuclear Fuel Cycles
  - Control Theory in Mechanical Engineering
  - Manufacturing Processes
  - Heat Transfer and Thermodynamics system design and Analysis
  - Design of Mechanical Elements and Engineering Materials
  - Mechanical Vibrations and Fluid Mechanics
  - Product Safety Engineering
  - Kinematics and Dynamics of Mechanics

### **KING FAHD UNIVIRSTY OF PETROLEUM AND MINERALS, Saudi Arabia**

Orientation Year

[2011-2012]

## **TECHNICAL SKILLS AND KNOWLEDGE**

- Trilingual in Arabic (*Native*), English (*professional*) and Korean (*Advanced*)
- Web and tech savvy, require little to no training
- Perform High Quality Work and complete it on time
- Good in CATIA
- Good in MATLAB and Simulink; Engineering Equation Solver (EES)
- Good in Pro e (Creo)
- Ability to demonstrates comprehensive understanding of concepts and principles within own job family and knowledge of other related job families
- Applies in-depth understanding of how own discipline integrates within the segment/function
- Influences others internally and externally.

## **RESEARCH AND PROFESSIONAL INTEREST**

- Relief Valves
- Safety Relief Valve
- HVAC
  - Air Flow, Fan blades, Motors and Guide Vanes

## **Honors:**

- College of Engineering President's/Dean's List (GPA 3.75 and above), Fall 2017, Spring 2017, Spring 2014

- Honors Society Member [2017-Present]
- The society For Colligate Leadership and Achievement Member [2015-2016]

## REFERENCES

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- **Available Upon Request**