MOHAMMAD IMRAN

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SUMMARY

Experienced in energy audit and building systems commissioning
Two years of experience of working as HVAC engineer
Three years of experience of design with SolidWorks and Pro E
Sound knowledge of the architectural and design firms
Good understanding of the HVAC equipments and controls
Deep knowledge of the environmental design and energy
Skilled to inspect the existing buildings and perform renovations
Remarkable ability to work with the help of building information model
A disciplined, ethical, quick learning individual
Team player, with strong communication and organizational skills
Language proficiency: English

PROFESSIONAL EXPERIENCE

Graduate Research Assistant
School of Aerospace and Mechanical Engineering | University of Oklahoma | August 2013 – Present

- Energy modeling of the engineering laboratory building.
- Performance evaluation of a simplified model of cooling load for a typical office.
- Restoration of 1–24 hour dry-bulb temperature gaps for use in building performance monitoring and analysis.
- Designed HVAC systems and associated components with SolidWorks and Pro E of engineering lab.
- Review and evaluation of cooling load prediction methods for control purposes.
- Calculated HVAC load and the load of hydraulic components of engineering lab.

HVAC Engineer
Hi-Tech Bangla (Bangladesh) Ltd | Panthapath, Dhaka | November 2011 – July 2013

- Developed and designed HVAC systems and associated components with SolidWorks and Pro E.
- Designed and maintained the plans for the HVAC equipments and ensured that they were installed properly.
- Developed plans and upgraded the HVAC equipments and increased their efficiency.
- Managed the multiple HVAC project, prepared their schedule and estimated the cost of the required equipments.
- Calculated HVAC load and the load of hydraulic components.
- Ensured that all HVAC equipments in the plant were in accordance to the engineering standards and codes.
- Performed troubleshoot on the HVAC equipment and installed the equipment according to the requirement.
- Designed the flow drawings and prepared the layouts.
- Coordinated with contractors of HVAC equipments.

Mechanical Engineer Intern
Eastern Refinery Ltd | Chittagong, Bangladesh | May – October 2010

- Performed conceptual, preliminary and detail process design of units and unit operations in refinery.
- Developed process flow diagrams and P&IDs.
- Performed heat and material balance, hydraulic and relief protection calculations.
- Developed process simulation models.
- Responsible for interfacing with the client on process issues and ensuring that the work of other engineering disciplines satisfies process requirements.
- Provided assistance and guidance in the design of products where it has been established that a design is complex or involves a significant level of technical risk.
- Analyzed and solved complex problems associated with design and performance of the products where the investigations performed to-date has not resolved the problem.

TECHNICAL SKILLS

Drafting and Design: Solid Works and Pro E.

Simulation and Modeling: ANSYS, MATLAB, Lab-View, and Mathcad

Programming language: C and MATLAB

Manufacturing Software: Master CAM, CAM Works

Statistical Analysis: Data interpretation, development of surrogate model

Microsoft Word, Excel, Power Point Presentation, Windows XP, 7 and 8

EDUCATION

Master of Science in Mechanical Engineering | Expected May 2015
University of Oklahoma | Norman, Oklahoma
GPA: **3.24 / 4.00**

Bachelor of Science in Mechanical Engineering | October 2011
Islamic University of Technology (IUT) | Dhaka, Bangladesh
GPA: **3.51 / 4.00**

HONORS AND AWARDS

2014 John Zink Scholar Award

2012 Punctual Employee of the Year | Hi-Tech Bangla Bangladesh Ltd

2011 Best Undergraduate Thesis Award | IUT

Government Scholarship for SSC and HSC result

University Merit Scholar (4 years) | IUT

AFFILIATIONS AND ACTIVITIES

American Society of Heating, Refrigerating and Air Conditioning Engineers (ASHRAE)

American Society of Mechanical Engineers (ASME)