

***The Story, the Opportunity,
and the Success for an IAC
Engineer***

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The Story

- IAC – Environmental Protection Agency (EPA)
 - P2 (Pollution Prevention) Internship was the perfect opportunity to connect IAC to the EPA
 - 1 week training prior to internship, provided by Bradley University's IAC Director Dr. Paul Mehta
 - Training included both Industrial Pollution Prevention and Energy Management

The Story

- Selection Process
 - State wide interviews were conducted
 - EPA wanted previous knowledge and experience with source reduction and energy efficiency
- My internship
 - to work at Mitsubishi Motors North America
 - Goal was to create and implement a Greenhouse Gas Reduction program
 - Both Energy saving recommendations and source reduction recommendations included in program

The Story

- Accomplishments

- Self Accomplishments

- Realized that IAC knowledge and Experience could be applied outside of IAC

- Company Accomplishments

- Savings generated for the company over the 3 month period:
 - \$60,000
 - 1,300 Metric Tons of CO₂
 - 2.4 Million kWh
- Implementation rate of 54%

The Opportunity

- Skills acquired from IAC (Becoming an Energy Engineer):
 - Technical Approach
 - Identify Problems and creative solutions
 - Understand concepts in:
 - Mechanical, Electrical, and Industrial Engineering
 - Technical Expertise
 - Financial Understanding

The Opportunity

Skills acquired from IAC:

- Business Approach
 - Communication
 - To leave a memorable impression, be visual
 - If you emphasize everything, you emphasize nothing

The Success

- What measures success?

Is it the recommendations ...or...

Is it the implementation of the recommendations

A combination of both

- Technical knowledge for recommendations
- Business knowledge for implementation

The Success

- Implementation of Recommendations
 - Company's Goal: Increase bottom line
 - Energy Engineer's Goal: Decrease Energy Consumption
- Implementation also includes:
 - “Showing the company how to start saving both Energy and Money
 - Start with low cost/no cost recommendations, then move to higher implementation cost recommendations
 - Package all recommendations together to be more attractive

The Success



Comments

- Issues

- Most companies are only concerned with quality of product and the efficiency with which the products are made
- Promote Energy Efficiency topics to be of higher priority to companies (Good for the Environment too!)

Comments

- Your Resume

- First opportunity to present knowledge and skills
- Flaunt your skills!
 - Report Writing
 - Presentations
 - Test Equipment
 - Various Analysis Software Packages
 - Team leader/Student Leader Positions

Contact Information

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Questions?

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