

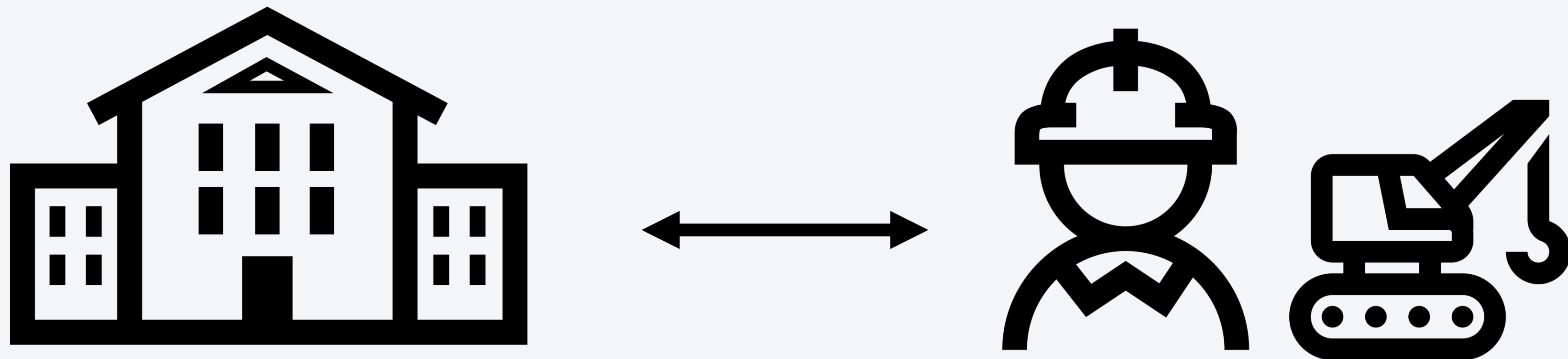
How to Be a Successful Engineer

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Justification

This paper shows us **the differences** in school and industry and shows you how to become a successful engineer.



OUTLINE OF CONTENT

1 TECHNICAL CONTENT

- Summary of the paper

2 TECHNICAL CONTENT

- The reason why I chose this
- How to embrace the needs of engineer career

3 CONCLUSION

4 THE ROAD AHEAD

Summary of the paper

ENGINEERING – WHAT YOU DON'T NECESSARILY LEARN IN SCHOOL

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missions of academe and industry/government. This paper focuses on twelve vital aspects in engineering that are usually learned after graduation but can make the difference between success and failure in one's engineering career. To

missions of academe and industry/government. This paper focuses on twelve vital aspects in engineering that are usually learned after graduation but can make the difference between success and failure in one's engineering career. To

To succeed, engineers must: learn to be business oriented; expect tough, multi-disciplinary problems; learn to work and network in the new multi-cultural and multi-national environment; understand the differences between academe and industry; learn to differentiate all over again; understand the values and culture of their particular company or organization; be open to ideas from everywhere; have

Quite naturally, this interaction often leads to a discussion about careers and the question arises, "How can I succeed in engineering?". I would not give them a mathematical equation whose solution would guarantee their success. But I know of no such equation. I have, however, gained some insights about success in engineering that my fellow engineers and I have shared over the years. I offer twelve insights, explained in this paper, and hope they will be beneficial in helping engineers focus and manage their careers.

These insights are not just 'one manager's' experience. As expressed in the Acknowledgements, I had my insights critiqued by many of my colleagues in industry and government, including chief technologists and chief engineers at the three major aeroengine companies: GE, Rolls Royce and Pratt and Whitney. I received overwhelming support from industry for the validity of my twelve insights.

Summary of the paper

LEARN TO BE BUSINESS ORIENTED

EXPECT TOUGH MULTI-DISCIPLINARY PROBLEMS

LEARN TO WORK AND NETWORK IN A NEW ENVIRONMENT

UNDERSTAND THE DIFFERENCES BETWEEN ACADEME AND INDUSTRY

LEARN TO DIFFERENTIATE ALL OVER AGAIN

**UNDERSTAND THE VALUES, CODE OF CONDUCT AND CULTURE OF
YOUR PARTICULAR COMPANY**

12
WAY
TO YOUR CAREER

Summary of the paper

BE OPEN TO IDEAS FROM EVERYWHERE

HAVE UNYIELDING INTEGRITY

MAKE YOUR MANAGER A SUCCESS

SUPPORT YOUR UNIVERSITY AND YOUR TECHNICAL SOCIETY

HAVE FUN

MANAGE YOUR CAREER

12 WAY

TO YOUR CAREER

The reason why I chose this



Academe

- Does it contribute to **science**?
- Is it interesting to do?
- Graduate when thesis finished.
- **Non-profit** institution



Industry

- Does it contribute to the **business**?
- Is it worthwhile financially?
- Meet schedule and budget
- **Profit** institution



I can **aware of these common differences**
and be prepared to adapt.



How to embrace the needs of engineer career

We have learned the difference between industry and learning.

So how do we meet the needs of our careers?





Attend the conference

See the trends



Do not stop learning

To catch opportunity



Make a mentor

Learn some tips



Get an Engineering Certificate

Essential to specific work



Teamwork and leadership

For efficient work

Conclusion



Society is different from schools.

When you are a student, you must concentrate on your studies.
But if you get a job at any company, you have to **change yourself**
Accordingly.



The road ahead



CES

**An event to see the trends
of technology at a glance.**



4th Industrial Revolution

AI, Big Data, IOT

DEMO SLIDE

reference

[1] David C, “What you don’ t necessarily learn in school by dave wisler”