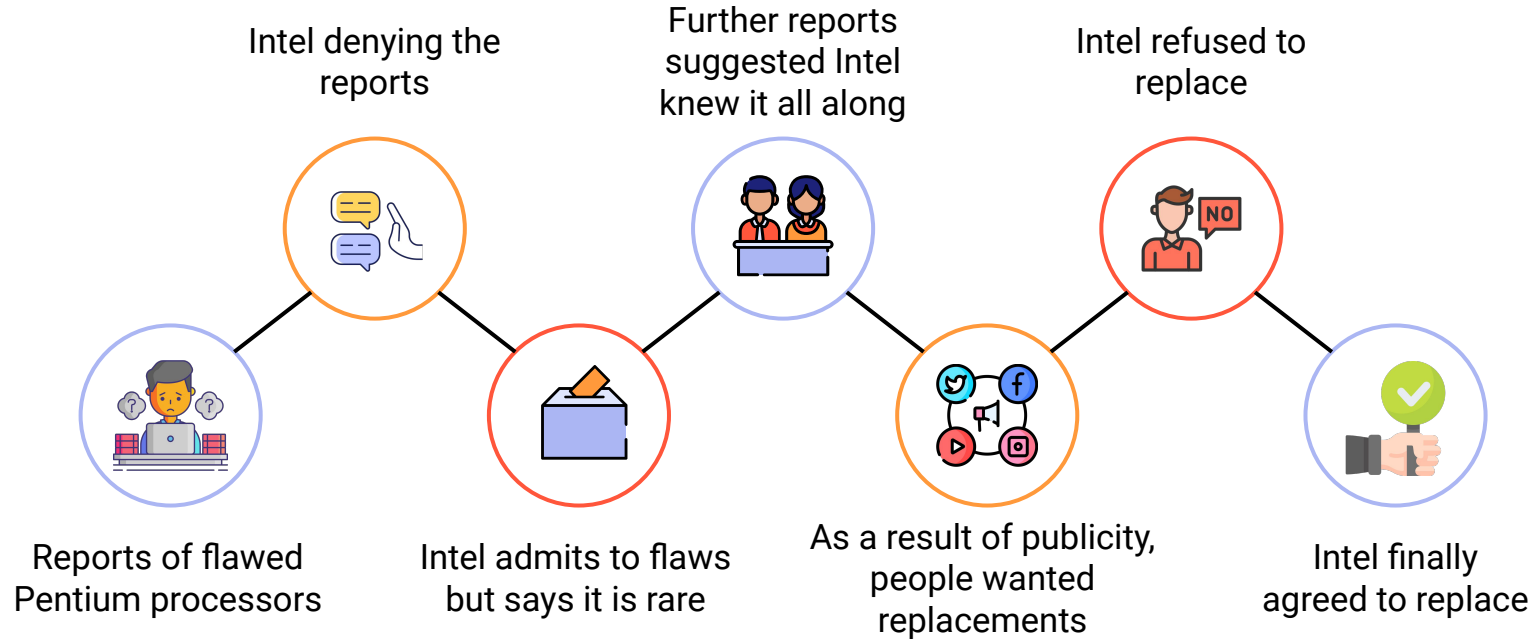


# HUM 4441 Engineering Ethics

Professionalism and  
Codes of Ethics



# Story of Intel



**Was this ethical from Intel?**

# Differences between Engineering and other professions

	Engineering	Others
Practiced	Mostly in a company	Can also be done privately Example: Lawyers, Doctors
Training	Finishes within 4 years of undergraduate	Begins after 4 years of undergraduate
Licences	Most engineers do not have engineering licences	Many professions have licenses as compulsory

These are aspects which are lacking in engineering

# What is code of ethics?

A code of ethics spells out the ways in which moral and ethical principles apply to professional practice



## **Framework**

Provides a framework for ethical judgement of a professional



## **Decision maker**

Provides a starting point for ethical decision making.



## **Not a legal document**

Nobody can get arrested for violating the code of ethics



# How code of ethics achieve the goals?

Code of ethics helps in achieving workplace success



## **Creates an environment**

- Helps create an environment where ethical behavior is the norm



## **Bolster subordinate's position**

- Provides backup against superiors providing unethical orders



## **Shows professionalism**

- The individual is viewed as a strictly professional person within the organization

# Objections to code

If code of ethics is so good, why doesn't every engineer follow it?



1

## **Not member of professional societies**

Engineers do not feel compelled to abide by the laws.

2

## **Lack of awareness**

Many engineers are not aware of the code. There is no consultation.

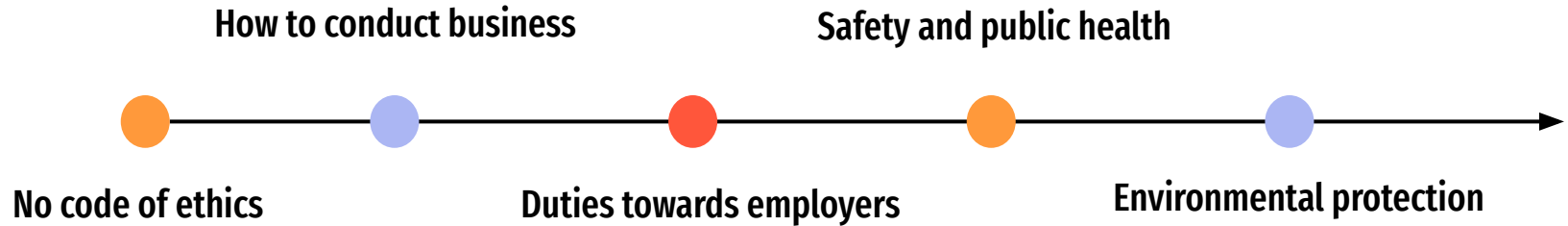
3

## **Can create internal conflict**

Some codes can have internal conflict without any resolution guideline.

# Evolution of code of ethics for engineers

How the code of ethics have developed over the years



# The 2 codes of ethics

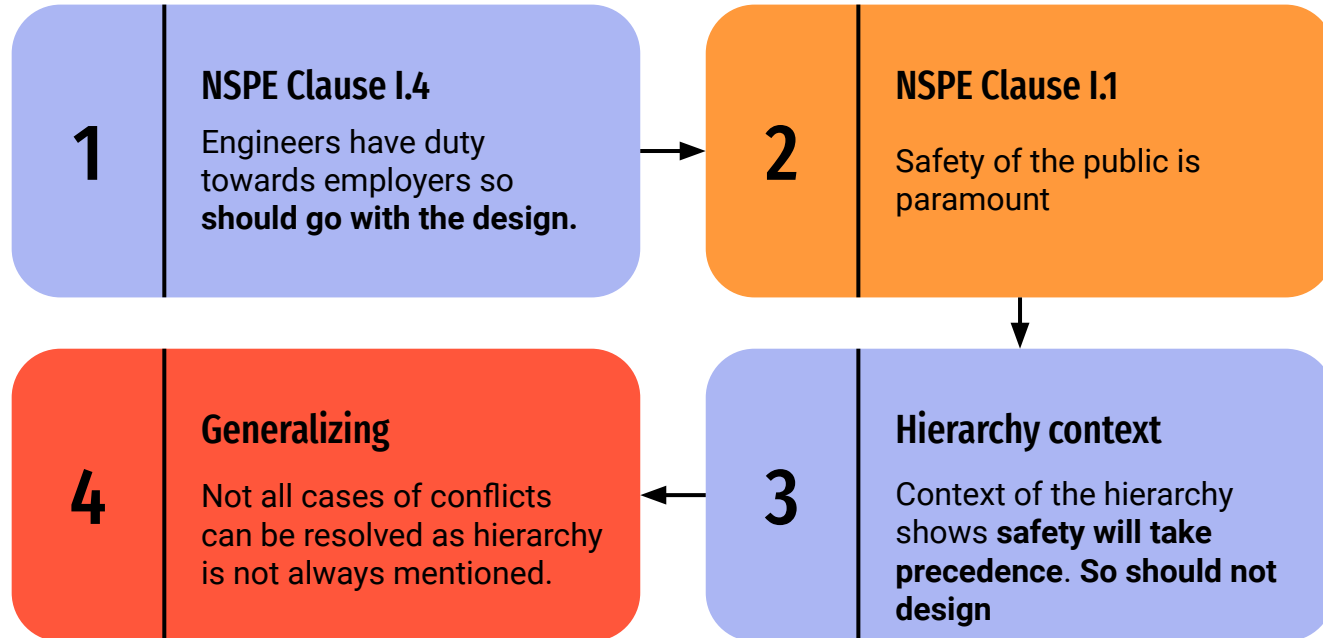
	IEEE	NSPE
Length	Short; deals with generalities	Long and detailed
Coverage	Covers only the basics	Covers all the details
Readability	Understandable	Unlikely to be thoroughly read
Example	Does not mention duty to employer	Section I.4 of NSPE mentions duty to employer

There are aspects which are lacking in engineering



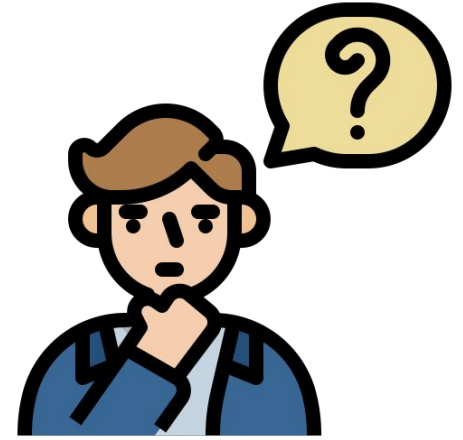
# Resolving internal conflicts in codes

**Scenario:** Employer orders an engineer to implement a design that the engineer feels will be unsafe.



**Read the NSPE Codes of Ethics from  
*Engineering Ethics Concepts and Cases*  
(Charles E. Harris Jr) - Appendix (Page 291)**





**Thank you  
Any Questions?**