

# Lecture 34 — Whistleblowing

Jeff Zarnett

jzarnett@uwaterloo.ca

Department of Electrical and Computer Engineering  
University of Waterloo

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Acknowledgments: Douglas Harder [1], Julie Vale [2]

A significant amount of this topic is taken directly or paraphrased from PEO's GUIDELINE: Professional Engineering Practice, a document you can download from PEO's web site.

[http://peo.on.ca/index.php/ci\\_id/22127/la\\_id/1.htm](http://peo.on.ca/index.php/ci_id/22127/la_id/1.htm)

Engineers are responsible for ensuring that the products that we design and develop are safe for the public.

What happens if company policy or culture is such that it is inevitably leading to harm?

Harm may take many forms: bodily injury, economic loss, et cetera.

**Whistleblowing** is the term when an employee or insider makes a disclosure of malfeasance or wrongdoing.

This is sometimes called “blowing the whistle”.

The disclosure may be internal (within the company, for example, to the CEO) or external (for example, to PEO or to the government).

Any time engineers see:

- A defect in a design
- An unsafe plan
- A faulty conclusion in an analysis
- An incomplete evaluation
- Poor advice given
- Insufficient direction

... within the scope of their practice, there is a duty to report.

A duty to report means that there is action you must take failure to do so may be professional misconduct or result in civil liability.

Remember from earlier the discussion of “Duty of Care”.

A practicing engineer has a duty of care to the public.  
Hence, a responsibility to act.

Same in other professions; for example, if a psychiatrist believes a patient is likely to commit a murder, the psychiatrist must report this to the police.

The duty to report relates to situations related to engineers' ability to apply judgment based on their professional training, experience and competence.

Note that it is a duty to *report*, not solve.

Unless the engineer has the authority to make the changes.

In most cases it is someone else's responsibility and all that is required is to make those others aware of the issue(s).

When is it okay to go outside the privacy of a contract or employment?  
Or in other words “go public”?

Only when it is a matter that affects the public welfare or public interest.  
And presumably, other approaches have not succeeded.



An engineer would proceed as follows:

1. Ensure the problem is real and that the harm is a reasonable consequence of the issue.

The severity of the consequences will dictate the urgency required.

2. Determine whom should be informed.

As a matter of fairness, loyalty and being a faithful trustee or agent, one would always approach one's employer or client first.

3. Advise the employer/client and, if possible, provide possible remedial steps. Ensure that the individual is clearly aware of the consequences.

At this point, the engineer must decide:

“Will the consequential harm affect the public welfare?”

If the answer is no, it is an internal issue and your responsibilities are met.

Which of the following are purely internal and do not affect public welfare?

- A colleague is engaging in racist behaviour, ignoring or belittling those from other cultures or ethnicities
- The design will have significant consequences on the extensibility of the system, thereby necessarily incurring significant additional expenses in the future
- There is evidence of bribery between your employer and another client
- A mechanical engineer is designing the framework for a software system
- An engineer approved a report prepared by a subordinate that he did not have time to read
- Any behaviour that is illegal

If there is the potential for harm to the public welfare, the engineer should take the following additional steps:

4. Follow up with the employer or client within a reasonable period of time.  
You should inform them that you are obligated to report if the issue is not addressed appropriately.

You are required to do so under the Professional Engineers Act.

5. If the issue is not addressed, discuss the matter with colleagues.  
Again, you should maintain privacy of contract – talk to your fellow engineers in-house where at all possible.
6. If the issue is not resolved, follow up with higher management.  
Again, reiterate that you are obligated to report under the Act

If the issue is not being addressed, it may be necessary to go external.

What about any contractual obligations, employment contracts, or non-disclosure agreements?

A non-disclosure agreement is a contract between the parties and an agreement is legally enforceable only if it has legal purpose.

Suppose is an imminent threat to life, health, property, economic interests, the public welfare or the environment.

Any agreement requiring confidentiality on such matters means that such a contract will no longer have legal purpose.

Threats to life, health, property and the environment can be more objectively quantified; what about threats to economic interests & the public welfare?

If you feel that there is an immanent threat to the public welfare, the next step is to blow the whistle.

The first step is to approach a government regulatory body or a government ministry or ombudsperson.

There must be an extreme situation before an engineer would approach either the media or a private watchdog agency.

Any professional engineer can always contact PEO at this step of the process; there is a hotline phone number you can call.

# Reporting Incompetence or Misconduct

When must a professional engineer report professional misconduct or incompetence on the part of another engineer?

The Act only requires reporting when a professional engineer determines a situation is either unsafe or detrimental to the public welfare.

If the incompetence or misconduct of a professional engineer becomes threatening, an engineer would issue a complaint as any other person.



# How Likely Is This Anyway?

How often will engineers find themselves in such a position?

How often will they be confronted with corrupt and unprincipled managers or executives bent on throwing all caution and care to the wind...?

It is unlikely that even one student in this class will ever see such behaviour in his or her career – not impossible, but highly improbable.

These sorts of things make for good movies but life is rarely so dramatic.

The more likely causes are inaccuracy, carelessness and inattentiveness.

Only occasionally is lack of scientific or mathematical understanding the cause of such harm.

Malice, greed, or indifference to the public is even less likely.

The very nature of the engineering profession is directly associated with mitigating harm; when that fails, people, property & the public are injured.

Thus, engineers must, by their training and obligations, take greater care.

Alpern's principle of proportionate care:

*When one is in a position to contribute to greater harm or when one is in a position to play a more critical part in causing harm than is another person, one must exercise greater care to avoid doing so.*

In any large organization, there will be dilution of individual responsibility.

Engineers will change projects, teams, divisions and companies and, these days, seldom will they hold the same position for many years.

Dennis Thompson describes this as a “problem of many hands”.

Alternatively, should a single individual be held responsible for what is often a systemic problem?

# Life as a Whistleblower Ain't Easy

Sadly, whistleblowers often face retribution or punishment.

They are fired, defamed in the press, blacklisted from the industry...

Such reprisals are generally illegal, but that doesn't mean they don't happen.

They may also face legal action based on what they did.

Civil or criminal proceedings, depending on the exact circumstances.

If you should ever find yourself in this situation, you should be aware of this.

I sincerely hope that you, or I, could find the courage to do the right thing...

- [1] D. W. Harder, "ECE 290 Lecture Materials," 2013.  
Online; accessed 31-May-2016.
- [2] J. Vale, "ECE 290 Course Notes," 2011.

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