Ethics in engineering

Name

Institutional Affiliation

Abstract

This research paper will concentrate on ethical issues in engineering, different laws involved in the attempt to resolve these issues, and steps that can be taken to avoid these issues.

Ethics in engineering

**INTRODUCTION**

* Ethics in engineering cannot be avoided whether an engineer is working for a company or working as an individual. Engineers are forced to make moral or ethical decisions in the course of their work.
* In most cases, the ethical issues arise following the tendency of professionals and other players to ignore the guidelines provided by the National Society of Professional Engineers (NSPE).

**Thesis:**

* This research paper aims to analyze issues surrounding ethics in engineering, how the law applies to them, and how to avoid such issues in the future.

**BODY**

**Issue:**

* Ethical issues in engineering may come up amid the design of systems, processes, technological products, and services (Barry & Herkert, 2015).
* Such issues may likewise include privacy, user autonomy, sustainability, and safety. Ethical issues related to innovation focus on the user phase.
* Matters related to the environment is a central part of the ethical behaviors of engineering
* Conflict of interest is another ethical issue that may happen where a professional's obligations and loyalties may be negotiated because of selfishness or other commitments and responsibilities, which result in partial judgment.

**Impact of Ethical Issues in Engineering**

When ethical issues occur, they are likely to affect different people in society. For instance, in the case where an engineer ignores some critical steps in the construction of a building or a bridge, and the building collapses some years after its completion, such action may affect thousands of people as well as the owner of the structure who is the client.

**LITERATURE**

**Importance of ethics:**

* Ethics are essential among the engineers are they ensure that the clients and other individuals are safe because they are mostly involved in the design of various structures. Additionally, the environment is mainly impacted by different designs presented by engineers. Therefore, ethics allow them to act morally and ethically to offer the best outcomes.
* Most of the services offered by engineers need equity, fairness, impartiality, and honesty, and these services should be devoted to the safeguarding of the public welfare, safety, and health.
* Consequently, an affiliate of this profession is anticipated to show the most significant standards of integrity and honesty. This is following their considerable impact on the quality of life among citizens

**Applicable Law:**

* There are code of ethics established by the National Society of Professional Engineers (NSPE), and they guide the behaviors of engineers
* Legal liabilities and duties of the qualified and licensed engineers
* Tort of negligence
* Industrial and intellectual property
* Finally, engineers are just like any other citizen, depending on the issue committed, they are likely to face a lawsuit or a tort of law

**Avoiding Ethical Issues in Future:**

Engineers can avoid ethical issues by:

* Sticking to the guidelines depicted by the code of ethics allows the engineers to behave in a manner that enhances accountability and responsibility in every operation and decision
* Engineers should embrace the concept of whistle-blowing by going public on matters which are dangerous, illegal, and harmful (Han, 2015).

**CONCLUSION**

* In order to avoid ethical issues, engineers should use the code of ethics provided by NSPE as their guideline
* The court of law may solve most of the ethical issues which cannot be addressed by the disciplinary department in the field of engineering.

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