

# ENGINEERS AS RESPONSIBLE EXPERIMENTERS

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The engineers share a greater responsibility while monitoring the projects, identifying the risks, and informing the clients and the public with the fact.

## **Engineers responsibilities**

- A conscientious commitment to live by moral values.
- A comprehensive perspective on relevant information. ( awareness, monitoring side effect) .
- Un restricted free-personal involvement in all steps of the project/ product development (autonomy).
- Be accountable for the results of the project.

# CONSCIENTIOUSNESS

- **Being sensitive to full range of moral values and responsibilities relevant to the prevailing situation.**
- **The willingness to develop the skill and put the efforts needed to reach the best balance possible among those considerations.**
- **Engineers must possess open eyes( moral vision) ,open ears(moral listening), and an open mind(moral reasoning).**
- **Respect foremost the safety and health of the affected.**
- **The human rights of the participant should be protected through voluntary and informed consent.**

# COMPREHENSIVE PERSPECTIVE

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- The Engineers should grasp the context of his work and ensure that the work involved results in only moral ends.
- One should not ignore his conscience, if the product or project that he is involved will result in damaging the nervous system of the people. ( or even the enemy, in case of weapon development)

# MORAL AUTONOMY

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- Viewing engineering as social experimentation , and anticipating unknown consequences should promote an attitude of questioning about adequacy of the existing economic and safety standards .
- This proves a greater sense of personal involvement in one's work.

# ACCOUNTABILITY

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- Capacity to understand and act normal reasons.
- Willingness to submit one's action to moral scrutiny .
- Be responsive to the assessment of others.
- Be liable to justify the decisions , actions or means , and outcomes.