

## ENGINEERING & ETHICS

Ethical problems in engineering:

1. Quality control in design and production. Economic motivation: need for uniformity, minimum quality, and prestige. Moral motivation: honesty. Limit: maximizing quality leads to high price, hence to elitism (e.g. Rolls Royce).
2. Human engineering or internal social impact. Economic motivation: minimization of costs and optimization of personnel satisfaction. Moral motivation: personnel welfare.
3. Societal impact: minimize undesirable social changes. Economic motivation: social disruption leads to economic disturbances. Moral motivation: minimize suffering of others.

4. Environmental impact. Long term economic motivation: conservation of resources. Moral motivation: respect for public property (air, water, natural beauty, etc.).

5. Risk protection <sup>and</sup>

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