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1 Profession according to Michael Davis

Individuals in the same occupation voluntarily organised to earn a living by openly **serving a certain moral ideal** in a **morally permissible way**

2 Characteristics of a profession

Fully developed professions have a well-organized infrastructure to support existing members of the profession and to certify new ones.

At the heart of every mature profession is **certification** and **licensing**. Certification and licensing enable a profession to determine who will be **allowed to practice** the profession

2.1 Certification vs Licensing

Professional certification is a **voluntary process**.

- A non-governmental professional organization **grants recognition** to an individual who has met certain qualifications.
- Certificate attests that the individual has **demonstrated** a certain level of mastery of a specific body of knowledge and skills within the relevant field of practice.

Licensure is a **non-voluntary process**

- A government agency regulates a profession
- License grants permission to an individual to engage in an occupation if the applicant has attained the degree of competency required to ensure the public health, safety, and welfare will be reasonably protected.
- Once a licensing law has been passed it becomes illegal for anyone without a license to engage in that occupation

As of now there is no licensing for software engineers. As stated by ACM (Association for Computing Machinery) council:

ACM is opposed to the licensing of software engineers at this time because ACM believes that it is premature and would not be effective in addressing the problems of software quality and reliability

3 Code of ethics

Code of ethics includes:

- Principles
- Rules
- Ideals
- Requirements
- Permissions
- Prohibitions

3.1 Principles

- PUBLIC INTEREST: Act consistently with the public interest
- CLIENT AND EMPLOYER: Act in the best interests of the client and employer, consistent with the public interest
- PRODUCT: Ensure that the product meet highest professional standards possible
- JUDGMENT: Maintain integrity and independence in professional judgment
- MANAGEMENT: Subscribe to and promote ethical approach to the management of software development and maintenance

- **PROFESSION:** Advance integrity and reputation of the profession consistent with the public interest
- **COLLEAGUES:** Be fair to and supportive of colleagues
- **SELF:** Participate in lifelong learning regarding the practice and promote an ethical approach to the practice of the profession

3.2 Issue with applying ethics codes

Codes of ethics suffer the same fundamental problem as ethical theories-goodness cannot be defined through a legalistic enumeration of do-s and don't-s; it must come from the heart

4 Dealing with a moral problem

- Identify **fundamental principles** that are **relevant** to the moral problem
- Identify **clauses** of the principles which speak most directly to the issue
- Determine whether the **contemplated** action aligns with or **contradicts** the statements of the clauses
 - If the action is in agreement with all the clauses then the action is **moral**
 - If the action is in disagreement with all of the clauses then the action is **immoral**
 - When some clauses support and others oppose then **use own judgement**; determine which clauses are most important before reaching a conclusion.

5 Virtue Ethics

Virtue ethics is **person rather than action based**: it looks at the virtue or moral character of the person carrying out an action, rather than at ethical duties and rules, or the consequences of particular actions. Virtue ethics not only deals with the rightness or wrongness of individual actions, **it provides guidance** as to the sort of characteristics and behaviours a good person will seek to achieve.

5.1 Strengths of Virtue Ethics

- Motivation for good behaviour and healthy social interactions: Utility and Categorical Imperative by Kant say nothing about motivation
- Provides a solution to the problem of **impartiality**. Utilitarianism, Kantianism and social contract require complete impartiality and treatment of all humans as equal moral evaluations that are hard to accept
- Some virtues are partial towards certain people and others are impartial and treat everyone equal.
- For example:
 - Generosity and loyalty: One can be partial to friends and family members
 - Civility, honesty, and courteousness: Applied equally to all human beings

5.2 Fundamental principles based on Virtue ethics

- Be impartial
- Disclose information that others ought to know
- Respect the rights of others
- Treat others justly
- Take responsibility for your actions and inactions
- Take responsibility for the actions of those you supervise
- Maintain your integrity
- Continually improve your abilities
- Share your knowledge expertise and values

6 Analysing scenarios

- List people and organizations affected
- List risks, issues problems, consequences
- List benefits and beneficiaries
- List possible actions
- Identify responsibilities of the decision maker
- Identify rights of stakeholders
- Consider impact of potential actions on stakeholders
- Consider applicability of professional codes
- Categorize potential actions as ethically obligatory, prohibited or acceptable
- If there are several ethically acceptable options consider their merits and choose

Reference section

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